



UNIT COST 2024-25



राष्ट्रीय कृषि और ग्रामीण विकास बैंक
NATIONAL BANK FOR AGRICULTURE AND RURAL DEVELOPMENT

तेलंगाना क्षेत्रीय कार्यालय, हैदराबाद
TELANGANA REGIONAL OFFICE, HYDERABAD

विज़न

“ग्रामीण समृद्धि के लिए राष्ट्रीय विकास बैंक”

VISION

“Development Bank of the Nation for fostering rural prosperity”

मिशन

“सहभागिता, संधारणीयता और समानता पर आधारित वित्तीय और गैर-वित्तीय सहयोगों, नवोन्मेषों, प्रौद्योगिकी और संस्थागत विकास के माध्यम से समृद्धि लाने के लिए कृषि और ग्रामीण विकास का संवर्धन”

MISSION

“Promote sustainable and equitable agriculture and rural development through participative financial and non-financial interventions, innovations, technology and institutional development for securing prosperity”

प्राक्कथन



राष्ट्रीय कृषि और ग्रामीण विकास बैंक (नाबार्ड) को, एक शीर्ष विकास वित्तीय संस्थान के रूप में, कृषि और ग्रामीण विकास को प्रोत्साहित करने हेतु ऋण प्रवाह को सुगम बनाने और उसके संवर्धन के लिए अधिदेश प्राप्त है।

पर्याप्त ऋण उपलब्धता सुनिश्चित करने हेतु, नाबार्ड विभिन्न कृषि निवेश गतिविधियों के लिए उचित इकाई लागत निर्धारित करने के लिए वर्षों से राज्य स्तरीय इकाई लागत समिति (एसएलयूसीसी) की बैठकें आयोजित करता रहा है। तेलंगाणा राज्य के लिए वर्ष 2024-25 की इकाई लागतों को 12 जून 2024 को नाबार्ड तेलंगाणा क्षेत्रीय कार्यालय, हैदराबाद में आयोजित एसएलयूसीसी बैठक

में विभिन्न हितधारकों, अर्थात् राज्य सरकार के विभागों, बैंकर्स, अनुसंधान संगठनों, प्रशिक्षण संस्थानों और स्टार्टअप के साथ व्यापक परामर्श के बाद अंतिम रूप दिया गया था। पशुपालन क्षेत्र में, "स्वच्छ मीट हब" नामक एक पोर्टेबल स्वच्छ वध इकाई को शामिल किया गया है, जिसे आईसीएआर-राष्ट्रीय मांस अनुसंधान संस्थान, हैदराबाद की सहायता से, जुगाली करने वाले छोटे पशुओं के मांस को स्वच्छता से उत्पादन करने तथा ठोस और तरल अपशिष्ट को खाद बनाने के लिए डिज़ाइन किया गया है। एकीकृत कृषि प्रणाली में, प्रोफेसर जयशंकर, तेलंगाणा राज्य कृषि विश्वविद्यालय, तेलंगाणा की शोध के आधार पर 2 नए लाभकर आईएफएस मॉडल शामिल किए गए हैं। मत्स्य पालन क्षेत्र में, इस वर्ष झींगा पालन (एसपीएफ एल.वन्नामेई) की शुरुआत की गई जो निवेश के रूप में बैंकरों के दृष्टिकोण से व्यवहार्य और आकर्षक है। कृषि मशीनीकरण में, बाजार में उपलब्ध नवीनतम तकनीकों के आधार पर नए ईवी फार्मिंग टूलबार को शामिल किया गया है। वानिकी फसलों को बढ़ावा देने के लिए वर्तमान वर्ष के दौरान एक नई फसल, अर्थात्, इमली को शामिल किया गया है।

समिति द्वारा अनुमोदित लागतें निर्देशात्मक प्रकृति की हैं, और वित्तीय संस्थान / सरकारी एजेंसियां तकनीकी व्यवहार्यता, वित्तीय व्यवहार्यता और निवेश की बैंक साध्यता को ध्यान में रखते हुए, उन्हें क्षेत्र-स्तरीय स्थितियों के आधार पर समायोजित कर सकते हैं।

मैं इस पुस्तिका को तैयार करने में शामिल तेलंगाणा के विभिन्न सरकारी विभागों, एसएलबीसी, बैंकों, अनुसंधान / प्रशिक्षण प्रतिष्ठानों और अन्य एजेंसियों द्वारा प्रदान किए गए साथ-सहकार के लिए अपना आभार व्यक्त करती हूँ। मुझे विश्वास है कि यह दस्तावेज़ सरकारी विभागों और वित्तीय संस्थानों सहित सभी हितधारकों के लिए एक मूल्यवान मार्गदर्शक के रूप में काम करेगा और राज्य में कृषि और संबद्ध क्षेत्र में ऋण प्रवाह में वृद्धि को प्रोत्साहित करेगा।

(सुसीला चिंताला)

मुख्य महा प्रबंधक

तेलंगाणा क्षेत्रीय कार्यालय, हैदराबाद



Foreword



National Bank for Agriculture and Rural Development (NABARD), as an Apex Development Financial Institution, is mandated to facilitate and enhance credit flow to foster agricultural and rural development.

NABARD has been convening meetings of State Level Unit Cost Committee (SLUCC) over the years, to determine appropriate unit costs for different agricultural investment activities, thereby ensuring sufficient credit availability. The Unit costs for 2024-25 for Telangana State were finalized by the SLUCC meeting convened on 12 June 2024 at

NABARD Telangana Regional Office, Hyderabad after extensive consultations with various stakeholders viz. State Government departments, Bankers, Research organizations, Training establishments and Startups. In the Animal Husbandry sector, a portable hygienic slaughter unit named “Swachh Meat Hub”, has been included which is designed to produce hygienic meat and compost solid and liquid waste for small ruminants, with assistance from ICAR-National Meat Research Institute, Hyderabad. In Integrated Farming System, 2 new bankable IFS models have been included based on research by Professor Jayashankar Telangana State Agricultural University, Telangana. In Fisheries sector, Shrimp farming (SPF L.vannamei) has been introduced this year in view of its feasibility and attractiveness as an investment from the perspective of bankers. In Farm Mechanization, new EV farming toolbar has been included based on latest technologies available in the market. One new crop viz., tamarind has been included during the current year for promotion of Forestry crops.

The costs approved by the Committee are indicative in nature, and financial institutions/government agencies may adjust them based on field-level conditions, considering technical feasibility, financial viability, and the investment's bankability.

I extend my gratitude for the support and collaboration provided by the various government departments of Telangana, SLBC, banks, research/training establishments and other agencies involved in the development of this booklet. I trust that this document will serve as a valuable guide for all stakeholders, including government departments and financial institutions, and will encourage increased credit flow in Agriculture and allied sector in the state.

(Suseela Chintala)
Chief General Manager
TGRO, Hyderabad

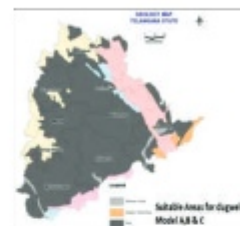


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A. MINOR IRRIGATION

I –UNIT COSTS OF DUGWELLS

Model- A : HARD ROCK AREAS				
1. Basic Information:		Outer Dia.(m)	6.9	
Suitable in hard rock areas- Granites and Granitic Gneisses of , Basalts etc where ground water level is within 10 m bgl and weathered portion is 3-5 m bgl		Inner Dia.(m)	6.0	
		Depth of the Well(m)	12.0	
		Steining of the well(m)	5.0	
		Thickness of Steining (m)	0.5	
2. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/ cum (₹)	Amount (₹)
0.0 to 2.0 m	2	74.80	308.88	23104.224
2.0 to 4.0 m	2	74.80	391.30	29269.240
4.0 to 6.0 m	2	56.56	492.74	27869.374
6.0 to 8.0 m	2	56.56	609.08	34449.565
8.0 to 10.0 m	2	56.56	734.36	41535.402
10.0 to 12.0 m	2	56.56	869.24	49164.214
3. Cost of Steining		45.60	1000.00	45600.00
4. Dewatering Charges				5000.00
TOTAL COST (Rounded off to)				256000



Minimum Benefitting Area in Acres	2.23
Repayment Period	SF & MF 7 years; OF- 5 years with grace period 11 months from release of last instalment
NPW: BCR: IRR	₹ 9205; 1.07:1.0; 17.10%

Model-B : HARD ROCK AREAS				
1. Basic Information:		Outer Dia.(m)	5.9	
Suitable in hard rock areas- Granites and Granitic Gneisses of Basalts etc. where ground water level is within 10-12 m bgl and weathered portion is > 5-7 mts bgl		Inner Dia.(m)	5.0	
		Depth of the Well(m)	14.0	
		Steining of the well(m)	5.0	
		Thickness of Steining(m)	0.45	
2. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0 m	2	54.687	308.88	16891.72
2.0 to 4.0 m	2	54.687	391.30	21399.02
4.0 to 6.0 m	2	39.275	492.74	19352.36
6.0 to 8.0 m	2	39.275	609.08	23921.62
8.0 to 10.0 m	2	39.275	734.36	28841.99
10.0 to 12.0 m	2	39.275	869.24	34139.40
12.0 to 14.0 m	2	39.275	1020.12	40065.21
3. Cost of Steining		38.5288	1000.00	38528.80
4. Dewatering Charges				5000.00
TOTAL COST (Rounded off to)				228200.00
Minimum Benefitting Area in Acres		1.98		
Repayment Period		SF & MF 7 years; OF- 5 years; with grace period 11 months from release of last instalment		
NPW:	BCR:	IRR	₹ 9021; 1.17 :1.0; 17.38%	

Model-C : Hard Rock Areas			
1. Basic Information:		Outer Dia.(m)	5.9
Suitable in hard rock areas- Granites and Granitic Gneisses of Basalts etc., where ground water level is within 10-12 m bgl and weathered zone is >7 mts bgl		Inner Dia.(m)	5.0
		Depth of the Well(m)	16.0
		Steining of the well(m)	5.0
		Thickness of Steining(m)	0.45

2. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0 m	2	54.6865	308.88	16891.57
2.0 to 4.0 m	2	54.6865	391.30	21398.83
4.0 to 6.0 m	2	39.275	492.74	19352.36
6.0 to 8.0 m	2	39.275	609.08	23921.62
8.0 to 10.0 m	2	39.275	734.36	28841.99
10.0 to 12.0 m	2	39.275	869.24	34139.40
12.0 to 14.0 m	2	39.275	1020.12	40065.21
14.0 to 16.0 m	2	39.275	1174.20	46116.71
3. Cost of Steining		38.5288	1000.00	38528.80
4. Dewatering Charges				5000.00
TOTAL COST (Rounded off to)				274300.00
Minimum Benefitting Area in Acres		2.35		
Repayment Period		SF & MF 7; OF- 5 years with grace period 11 months from release of last instalment		
NPW: BCR: IRR		₹ 14038; 1.13 :1.0; 18.02%		

**Model - D: HARDROCK AREAS-SEDIMENTARY FORMATIONS
SAND STONES & LIME STONES -
(Areas of Karimnagar, Nalgonda and Warangal - Cuddapah and
Kurnool Formations)**

1. Basic Information:	Outer Dia.(m)	4.9
Suitable in hard rock areas- Weathered Sand stones, Limestone, Laterites etc. where ground water level is within 10 m bgl	Inner Dia.(m)	4.0
	Depth of the Well(m)	12.0
	Steining of the well(m)	5.0
	Thickness of Steining(m)	0.45

2. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0 m	2	37.72	308.88	11650.95
2.0 to 4.0 m	2	37.72	391.30	14759.84
4.0 to 6.0 m	2	25.136	492.74	12385.51
6.0 to 8.0 m	2	25.136	609.08	15309.83
8.0 to 10.0 m	2	25.136	734.36	18458.87
10.0 to 12 m	2	25.136	869.24	21849.22
3. Cost of Steining		31.4593	1000.00	31459.30
4. Dewatering Charges				5000.00
TOTAL COST (Rounded off to)				130900.00
Minimum Benefitting Area in Acres		1.19		
Repayment Period		SF & MF 7 years; OF- 5 years with grace period 11 months from release of last instalment		
NPW: BCR: IRR		₹ 7328; 1.11 :1.0; 17.9%		

Model - E: DUG WELLS IN ALLUVIAL AREAS - Adjoining areas of Krishna, Godavari river, other rivers/Streams and Head Reaches of Canal Command areas)

1. Basic Information:		
	Outer Dia. (m)	3.20
Suitable in Alluvial & Hard rock areas - Krishna, Godavari, other rivers/Streams and Head Reaches of Canal Command areas, where ground water level is within 6 m bgl	Inner Dia. (m)	3.00
	Depth of the Well (m)	14.00
	Steining of the well (m)	12.00
	Thickness of Steining (m)	0.10

2. Cost of Excavation				
Depth (m)	RMT	Quantity (cum)	Rate/cum (₹)	Amount (₹)
0.0 to 2.0 m	2	16.087	280.49	4512.24
2.0 to 4.0 m	2	16.087	339.35	5459.12
4.0 to 6.0 m	2	16.087	411.79	6624.47
6.0 to 8.0 m	2	16.087	484.53	7794.63
8.0 to 10.0 m	2	16.087	557.45	8967.70

10.0 to 12.0 m	2	16.087	637.40	10253.85
12.0 to 14.0 m	2	16.087	729.08	11728.71
3. Cost of Lining		13.640	5000.00	68200.00
4. Dewatering Charges				5000.00
TOTAL COST (Rounded off to)				128600.00
Minimum Benefitting Area in Acres		1.49		
Repayment Period		SF & MF 7 years; OF- 5 years with grace period 11 months from release of last instalment		
NPW: BCR: IRR		₹ 4198; 1.07 :1.0; 15.91%		

*** Note: Dug wells of 8-10 m depth will be sufficient, however depth up to 14 m is given to take care of situations where water level is deep**

II-UNIT COSTS OF DRILLED WELLS

A: Bore Well in Hard Rock Areas

(Fresh, Semi Weathered and Weathered Granites, Gneisses, Granitic Gneisses, Schist etc)

S. No.	Item	Design (₹/m)		Unit Rate (₹)	Total Amount (₹)
1	Drilling of bore well by down the hole hammer (DTH) drilling to a finished depths specified and reaming the bore to the required depth and diameter to suit lowering of 7" dia (180 mm) internal diameter casing pipe with coupling, fixing of pipes, flushing the bore wells at an average 150 psi inclusive of transportation from point to point, crew charges, consumables, shifting of rig and all other charges etc. in the entire district.	Diameter (mm)	180		
		Depth (m)	120	700	84000

GST @12% on Drilling					10080
2	Casing -PVC casing pipe	Diameter (mm)	180		
		Length (m)	20	884	17680
3	Well cap (PVC)	Diameter (mm)	180	200	200
			Sub Total		17880
GST@18% on casing and Well Cap					3218
TOTAL COST (Rounded off to)					115200
Minimum Benefitting Area in Acres		1.68			
Repayment Period		SF & MF 5 years; OF- 3 years with grace period 11 months from release of last instalment			
NPW: BCR: IRR		₹ 5649; 1.06:1.0; 16.43%			

**B : Tube wells in Soft Formations-Tube well 180 mm (7")
(Fresh, Semi weathered & Weathered Sandstones, Lime stones,
Alluvium etc.)**

S. No.	Item	Design		Unit Rate	Total Amount
				(₹)	(₹)
1	Drilling: Drilling of tube well with Rotary rig to finished dia of 311 mm (12 ¼") with a pilot bore of suitable dia may be 216 mm (8 ½") and then reaming to the finished diameter in all formations such as Alluvia, Clay and Sand stones etc., including installation charges for 180 dia (OD) PVC casing threaded pipes cost of	Diameter (mm)	180		

	consumables, cost of pebble gravel / clay balls, packing around the casing pipes, tube well development charges, transportation of rig and all other charges etc., (excluding cost of casing pipes, well cap, bottom dummy and clamp set) as recommended by the site incharge officers.	Depth (m)	120	1100	132000
	GST @ 12%				15840
	Total				147840
2	PVC Plain casing pipe	Dia.(mm)	175		168960
		Pressure	10 kg/cm ²		
		Length (m)	120	1408	
3	PVC casing pipe (Slotting)	Dia (mm)	175		30000
		Slot size	1/8" or 1/16"		
		Pressure	10 kg/cm ²		
		Length (m)	60	500	
4	Top Dummy suitable to 180 mm (OD) PVC pipe		1 No.	427	427
5	M.S Clamp set suitable to 180 mm (OD)PVC pipe		1 No.	500	500
6	Bottom Dummy (CI) suitable to 180 mm (OD) PVC casing pipe		1 No.	450	450
			Sub Total		200337
	GST @ 18% for items S No 2-6				36060.66
			Total		236397.6
7	Compressor development charges with transportation @ ₹3000/hour		2 hour	3000	6000
	TOTAL COST (Rounded off to)				390300.00

Minimum Benefitting Area in Acres	7.45
Repayment Period	SF & MF 7 years with 11 months grace period; OF- 5 years with 11 months grace period
NPW: BCR: IRR	₹ 9520; 1.03 :1.0; 16.63%

C - Filter Points in Alluvial areas- Filter point 125 mm

S. No.	Item	Design		Unit Rate (₹)	Total Amount (₹)
1	Drilling: Drilling of 200 mm dia. bore in BC and sandy, loamy soils including conveyance of HB set/ mini rotary rig work spot and all other drilling operations including incidental charges and inserting 125 mm dia. (OD) PVC casing development charges and all other charges as directed by the site in charge officer (excluding cost of casing pipe, couplings, cap and clamp set etc.)	Diameter (mm)	125		
		Depth(m)	20	700	14000
	GST@12%				1680
2	Casing-PVC plain casing pipe – Pressure 10 kg/cm2	Diameter (mm)	125		
		Length (m)	14	864	12,096
3	PVC casing pipe (Slotting)- Pressure -10 kg/ cm2	Diameter (mm)	125		
		Length (m)	6	963.84	5,783
4	Well cap suitable to 125mm. (OD) PVC pipe		1 No.	524.8	524.8
5	M.S Clamp set suitable to 125mm (OD)PVC pipe		1 No.	768	768

6	Bottom Dummy (CI) suitable to 125mm (OD) PVC casing pipe		1 No.	640	640
		Sub Total			19,812
	GST@18%				3566.13
	TOTAL COST (Rounded off to)				39100

Minimum Benefitting Area in Acres	0.89
Repayment Period	SF & MF 3 years with 11 months grace period; OF- 2 years with 11 months grace period
NPW: BCR: IRR	₹ 2788; 1.06:1.0; 16.63%



III: AGRICULTURAL PUMP SETS

A: Unit Cost of Complete Pumping System

(Amount in ₹)

S. No	ITEM	ELECTRIC			DIESEL		KEROSENE	
		3 HP	5 HP	7.5 HP	5 HP	8 HP	2 HP	3 HP
1	Prime Mover & Pump	19831	25540	34597	32084	46499	19492	22262
2	Foot Valve	410	537	665	535	684	271	351
3	Suction & Delivery Pipe	3009	3831	3992	3519	4103	2534	3244
4	Bend (Suction)	246	271	265	271	272	136	160
5	Bend (Delivery)	246	269	266	267	274	148	154
6	Starter	2464	2464	2711	0	0	0	0
7	Capacitor	370	616	616	0	0	0	0
8	Main Switch	370	370	370	0	0	0	0
9	Switch Board	678	678	678	0	0	0	0
10	Bolts & Miscellaneous	62	68	68	234	246	92	92
11	Earthing	554	554	554	0	0	0	0
12	Coupling/ Clamps	0	0	0	402	431	0	0
13	Water cooling system	0	0	0	986	1109	0	0
14	Transport	370	370	616	616	410	246	246
15	Installation	616	616	678	616	739	370	370
	TOTAL	29226	36184	46076	39530	54772	23289	26879
	GST @ 12 percent	3507.1	4342.08	5529.1	4743.6	6572.6	2795	3225.48
	TOTAL COST (Rounded off to)	32700	40500	51600	44300	61300	26100	30100
	Repayment period of only Pump set is given as individual unit. If it is given with well the Repayment period of well is applicable.	SF & MF5; OF- 3 years with 11 months grace period						

B - Unit Cost of Submersible Pump sets

(Amount in ₹)

S No	ITEM	3 HP	5 HP	7.5 HP	10 HP
1	Pump set	33809	37271	41442	47904
2	Cable	2511	2467	3008	3260
3	GI Pipe	10047	13621	17580	21983
4	Pressure Gauge	370	370	370	370
5	Non Return Valve	893	893	986	1047
6	Starter & Panel Board	4928	4928	4928	4928
7	Capacitor	708	708	708	708
8	Transport	616	616	924	924
9	Installation	1479	1848	2464	2464
TOTAL		55361	62722	72410	83588
GST @ 12 percent		6643.3	7526.64	8689.2	10030.56
TOTAL COST (Rounded off to)		62000	70200	81100	93600
Repayment Period of only Pump set is given as individual unit. If it is given with well the Repayment period of well is applicable		SF & MF 5; OF-3 years with 11 months grace period			

IV: WATER CONSERVATION SYSTEM**A: Unit Cost of Sprinkler Irrigation System (Pipe dia 63 mm)**

Sprinkler System Components	Rate (₹)	1.0 ha		2.0 ha	
		Quantity (Nos)	Amount (₹)	Quantity (Nos)	Amount (₹)
		Pipe Di a 63mm		Pipe Di a 63mm	
HDPE Pipes with quick action coupler (2.5 kg/cm ²) of 6m long	558	25	13950	30	16740
Sprinkler coupler with foot baton assembly	372	5	1860	7	2604
Sprinkler nozzles (1.7 to 2.8 kg/cm ²)	403	5	2015	7	2821
Riser pipe 20mm diameter x 75cm long	124	5	620	7	868
Connecting nipple	310	1	310	1	310
Bend with coupler 900	248	1	248	1	248

Tee with coupler	372	1	372	1	372
End plug	93	2	186	2	186
Basic system cost per hectare (₹)			19561		24149
GST @ 12%			2347		2898
TOTAL COST (Rounded off to)			21900		27000
Repayment Period	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period				
NPW: BCR: IRR	7500; 1.17 :1.0; 17.80%				

Model - B: Unit Cost of Sprinkler Irrigation System (Pipe dia 75 mm)

Sprinkler System Components	Rate (₹)	1.0 ha		2.0 ha		3.0 ha		4.0 ha	
		Quantity	Amt (₹)	Quantity	Amt (₹)	Quantity	Amt (₹)	Quantity	Amt (₹)
		(Nos)		(Nos)		(Nos)		(Nos)	
		Pipe Dia 75mm		Pipe Dia 75mm		Pipe Dia 75mm		Pipe Dia 75mm	
HDPE Pipes with quick action coupler (2.5 kg/cm ²) of 6m long	663.4	25	16585	30	19902	37	24546	45	29853
Sprinkler coupler with foot baton assembly	434	5	2170	7	3038	11	4774	14	6076
Sprinkler nozzles (1.7 to 2.8 kg/cm ²)	372	5	1860	7	2604	11	4092	14	5208
Riser pipe 20mm diameter x 75cm long	124	5	620	7	868	11	1364	14	1736
Connecting nipple	310	1	310	1	310	1	310	1	310
Bend with coupler 90°	310	1	310	1	310	1	310	1	310
Tee with coupler	310	1	310	1	310	1	310	1	310
End plug	124	2	248	2	248	2	248	2	248
Basic system cost per hectare			22413		27590		35954		44051
GST @ 12%			2690		3311		4314		5286
Total Cost (Rounded off to)			25100		30900		40300		49300
Repayment Period	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period								
NPW: BCR: IRR	₹ 7500; 1.17 :1.0; 17.80%								

C: Unit Cost of Sprinkler Irrigation System (Pipe dia 90 mm)

Sprinkler System Components	Rate (₹)	1.0 ha		2.0 ha		3.0 ha		4.0 ha	
		Quantity	Amt (₹)	Quantity	Amt (₹)	Quantity	Amt (₹)	Quantity	Amt (₹)
		(Nos)		(Nos)		(Nos)		(Nos)	
		Pipe Dia 90mm		Pipe Dia 90mm		Pipe Dia 90mm		Pipe Dia 90mm	
HDPE Pipes with quick action coupler (2.5 kg/cm ²) of 6m long	675	25	16875	30	20250	37	24975	45	30375
Sprinkler coupler with foot baton assembly	400	5	2000	7	2800	11	4400	14	5600
Sprinkler nozzles (1.7 to 2.8 kg/cm ²)	300	5	1500	7	2100	11	3300	14	4200
Riser pipe 20mm diameter x 75cm long	150	5	750	7	1050	11	1650	14	2100
Connecting nipple	350	1	350	1	350	1	350	1	350
Bend with coupler 90°	300	1	300	1	300	1	300	1	300
Tee with coupler	350	1	350	1	350	1	350	1	350
End plug	100	2	200	2	200	2	200	2	200
Basic system cost per hectare			22325		27400		35525		43475
GST @ 5%			1116		1370		1776		2174
TOTAL COST (Rounded off to)			23450		28770		37300		45650
Repayment Period	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period								
NPW: BCR: IRR	₹ 7200; 1.6:1.0; 18.60%								

D: Unit Cost of Rain gun (Pipe dia 75mm and 90mm)

System Components		Capital Cost (₹)
Rain gun with nozzle (3-4 kg/cm ²), discharge of 7 lps to 19 lps and radius of 31 m to 50 m, pipe diameter 90 mm, and related systems		36245
Booster Pumpset (5 HP) & Misc.		35000
Total Cost		71245
Raingun with nozzle (3-4 kg/cm ²), discharge of 7lps to 19lps and radius of 31m to 50m, pipe dia 75 mm, and related systems		31629
Booster Pump set (5 HP) & Misc.		35000
Total Cost		66629
Repayment Period	SF & MF 5 years with 11 months grace period; OF- 3 years with 11 months grace period	
NPW: BCR: IRR	₹ 6900; 1.42 :1.0; 17.96%	

E: Unit Cost of Drip Irrigation System (₹ per ha.)

Sl. No	Crop	Spacing	Type of Drip	Unit Cost (12 mm) Incl of HCU	Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
1	Mango/ Sapota	10 m x 10 m	Online	28858	33500	4	1 year	Existing mature orchard
2	Mango	9 m x 9 m	Online	35136	39278	4	1 year	Existing mature orchard
3	Mango/Sapota/ Coconut	8 m x 8 m	Online	37908	42381	4	1 year	Existing mature orchard
4	Mango/Cashew	7 m x 7 m	Online	39780	44917	3	1 year	Existing mature orchard
5	Mango/Cashew/ Sweet Orange/ Acid lime/Guava/ Ber/ Amla	6 m x 6 m	Online	41909	47708	3	1 year	Existing mature orchard
6	Mango/Banana	6 m x 6 m	Inline	42436	48100	3	1 year	Existing mature orchard
7	Mango/Bamboo	5 m x 5 m	Online	46736	53696	3	1 year	Existing mature orchard
8	Banana	5 m x 5 m	Inline	47442	50217	3	1 year	Existing mature
9	Mango- High density	3 m x 2 m	Online	0	75886	6	3 year	New Orchard
10	Coco/Bamboo	4 m x 4 m	Online	55442	57696	3	1 year	Existing mature orchard
11	Pomegranate	4.5 m x 2.7 m	Online	48537	56326	10	6 years	New Orchard
12	Papaya	1.8 m x 1.5 m	Online	90453	104426	3	1 year	New Orchard
13	Papaya	1.8 m x 1.5 m	Inline	88700	102300	3	1 year	New Orchard
14	Banana	1.8 m x 1.5 m	Inline	87348	104550	3	1 year	New Orchard
15	Grapevine/ Bottle , Bitter & Ridge Guard	2.7 m x 1.8 m	Online	68634	78489	3	1 year	Existing mature Vineyard
16	Grapevine/ Bottle Bitter & Ridge Guard	2.7 m x 1.8 m	Inline	68854	73200	7	23 months	New Orchard
17	Vegetables	0.6 m x 0.45 m	Inline	118863	131028	4	6 months	New

Sl. No	Crop	Spacing	Type of Drip	Unit Cost (12 mm) Incl of HCU	Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
18	Rose/ Jasmine/ Cotton/Mulberry/ Medicinal Plants	[(0.60 m + 1.20 m) x 0.6 m]	Inline	84193	91385	5	1 year	New
19	Other flowers	1.0 m x 0.30 m or 0.45 m	Inline	127612	152866	5	Depending on the crop	New
20	Tobacco (Light soils)	1.20 m x 0.50 m	Inline	109922	131028	4	6 months	New
21	Tobacco (Black soils)	0.75 m x 0.50 m	Inline	87596	108092	4	6 months	New
22	Sugarcane	[(0.75 m + 1.50 m) x 0.60 m]	Inline	68930	80520	3	1 year	New Planting
23	Sugarcane	[(0.60 m + 1.20 m) x 0.60 m]	Inline	77143	79633	3	1 year	New Planting
24	Sugarcane Pit Method	[1.50 m x 0.60 m]	Online	85956	97185	3	1 year	New Planting
25	High Density Apple, ber, guava, pomegranate, Papaya	3 m x 1.5 m	Inline	0	79210	4	11 months	Existing
26	Oil Palm	9 m x 9 m	Online	47700	53468	7	11 months	Existing
27	Oil Palm	9 m x 9 m	Micro jet	48600	54900	7	5 years	New
28	High Density-Mango, Guava, pomegranate, apple, ber, Papaya, date palm	5 m X 3 m	Online		52960	3	1 year	New Planting
29	High Density-Mango, Guava, pomegranate, apple, ber, Papaya, date palm	5 m X 2.5 m	Online		53120	3	1 year	New Planting
30	Flowers, tomato, chilli, brinjal, colocasia	3 m X 3 m	Inline		67107	5	6 months	New Planting
31	High Density-Mango, Guava, pomegranate, apple, ber Papaya, date palm	3 m X 2 m	Online		75886	3	1 year	New Planting
32	Flowers, tomato, chilli, brinjal, coloccasia	2.5 m X 2.5 m	Inline		76130	5	6 months	New Planting
33	Casuarina, Drum stick	2.5 m X 2.5 m	Online		82260	3	1 year	New Planting
34	Mulberry	1.8 m X 1.8 m	Inline		91365	5	1 year	New Planting

Sl. No	Crop	Spacing	Type of Drip	Unit Cost (12 mm) Incl of HCU	Unit Cost (16 mm) Incl of HCU	Repayment period	Gestation	Remarks
35	Papaya/ Banana/ Mulberry	1.8 m X 1.8 m	Inline	86753	104686	3	1 year	New Planting
36	Sugarcane	1.8 m X 0.4 m	Sub Surface		92000	3	1 year	New Planting
37	Sugarcane	1.5 m X 0.4 m	Sub Surface		106000	3	1 year	New Planting

Note: For new plantings, the repayment period shown above is for a composite investment covering both cost of cultivation of the crop and the cost of drip irrigation system. Hence, the bank shall finance a composite loan or should ensure that the beneficiary arranges the required finance for cultivation of the crop.

**HCU- Head Control Unit*

Model – F: Pipe line or Distribution System

Model	Area in ha/ Acre	Size of the Pipe	Unit Cost	
			RPVC6 kg/cm2	HDPE
Model I	0.4 ha/ 1.0 Acre	Length-100 m Dia- 63mm	₹9670 with accessories @₹ 80/m	₹ 11,800 with accessories @ ₹ 95/m
Model II	1.0 ha/ 2.5 acre	Length-150m Dia 63mm	₹14500 with accessories @ Rs 80/m	₹ 18,500 with accessories @ ₹ 95/m
Model III	1.5 ha/4.0 acres	Length-225 m Dia – 75 mm	₹27100; with accessories @ ₹100/m	₹ 40,500 with accessories @ ₹ 150/m
Model IV	2.0 ha/ 5.0 acres	Length-300 m Dia 75mm or 90 mm	₹ 54000 with s with accessories @150/m (Av of 75 mm & 90mm)	₹ 62,400 with accessorie @175/m (Av of 75 mm & 90mm)

**V. LOW LIFT IRRIGATION POINTS
Small Scale Lift Irrigation system**

Model	Area in ha/ Acre	H P of Pump set	Pipe Requirement in mts	Unit Cost	
				Pump set+ PVC6 kg/cm2	Pump set HDPE
Model I	0.4 ha/ 1.0 Acre	3.0 hp	100 m – Dia 63 mm	₹ 29,500+ ₹ 9,100	₹ 29,500+ ₹ 11,500
Model II	1.0 ha/ 2.5 acre	3.0 hp	200 m – Dia 63 mm	₹ 29,500+ ₹ 13,900	₹ 29,500+ ₹ 16,800
Model III	1.5 ha/4.0 acres	5.0 hp	300 m – 75 mm	₹ 36,500 + ₹ 25,400	₹ 36,500 + ₹ 36,200
Model IV	2.0 ha/ 5.0 acres	5.0 hp	400 m – 75 mm or 90	₹ 36,500 + ₹ 52,700	₹ 36,500 + ₹ 54,800

VI: ARTIFICIAL RECHARGE OF GROUND WATER
A: Artificial recharge of dried /seasonally functioning bore-well

Item	Qty	Rate per unit	Total Amount (₹)
Earth Work excavation around the bore well (JCB) hours	3.5	1248	4368
Boulders (8 to 12 inches size) (Granitic/ Hard Material/ Field) to be filled up to 1.5 m (tractor trips)	5	1716	8580
Boulders (6 inches size) ,to be filled up to 1/2 m (tractor trips)	2	2184	4368
80-40 mm size jelly to be filled up to 1/2 m (tractor trips)	2	3640	7280
Coarse Sand to be filled up to 1/2 m (tractor trips)	3	2912	8736
Casing pipe with holes including concrete base	1	3200	3200
Aqua mesh in meters	50	31.2	1560
Nylon mesh 6 m	1	208	208
Size Stone (Safe wall) (1 tractor = 250 stones)	1	1664	1664
Cement including transport per bag	3	364	1092
Casing pipe holding bracket with bolts and nuts/clamp	1	520	520
Labour for filling the materials (person days)	9	364	3276
Mason and labour for making protection wall (1 Mason per day cost ₹450, 1 Labour per day ₹ 350)-2 days	1	1664	1664
Diversion drain (cubic m) using machine	10	95	950
Total cost (Rounded off to)			₹ 47,500

Note: In case existing casing pipe is used and drilling of holes is carried out, ₹ 3200 could be saved making the unit cost as ₹ 44300

Techno economic parameters

Catchment :	5 ha	Average Annual Rainfall:	800 mm	Run-off coefficient:	0.25	Expected runoff:	10000 cu m
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Unit Cost	₹47,500	Bank Loan:	₹38,000	Margin Money:	₹9,500 (@20%)	Repayment	4 yrs (1/2 yrly)
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B: Artificial recharge of dried open/dug-well

Particulars	Measurement in m			Volume (m3)	Rate (₹) per cubic m	Labour (₹)	Material (₹)	Total Cost (₹)
	Length	Width	Depth					
Earth Work								
Diversion Drain	15	1	0.75	11.25	163	1833.75	0	1833.75
Silt Trip	2.5	2.5	1.2	7.5	163	1223	0	1222.75
Middle Drain	3	1	0.75	2.25	163	366.75	0	366.75
Water Recharge Pit	4	4	1.5	24	163	3912	0	3912
Pipeline - Trench	6	0.5	0.9	2.7	163	440.1	0	440.1
150 mm - Length - 6m						0	1400	1400
Misc.						0	600	600
						7775.1	2000	9775.1
Total cost (Rounded off to)								9800

Techno economic parameters

Catchment:	2 ha	Average Annual Rainfall:	800 mm	Run-off Co-efficient	0.25	Expected run off:	4000 cum
Diameter :	6 m	Depth of well:	15 m	Volume of storage :	847.8 cu m	Command area	0.4 ha
*Only 25% of this run off is expected to be diverted to the well							
Unit Cost:	₹9800	Bank Loan:	₹ 7840	Margin Money:	₹ 1960 (@20%)	Repayment	3 yrs (1/2 yrly)

C: Construction of Recharge Shaft in the upstream of Check Dam

Description of Item of Work	Quantity	Rate	Amount (₹)
Excavation in all kinds soil including stones, formation of service road in Cum	100	104.73	10473
Drilling of bore well 250 mm (m)	40	439	17560
Supply an fixing of slotted PVC pipe of 180 mm & 10 Kg / Cm ²	20	1517	30340
Excavation of Recharge Pit, Providing graded media and supplying and placing Polypropylene Mono filament and Iron mesh of 2mm/3mm perforations	1	55900	55900
Construction of protection wall with all materials, centring, laying concrete, compacting, finishing etc.,	1	41800	41800
Total cost (Rounded off to)			156000

Special terms and conditions –**Minor Irrigation Schemes: (DW, TW, BW, DOW, PUMP SETS etc.)**

1. Bank shall ensure that the programs shall be implemented in “Safe” Mandals only and for the program in other mandals, it shall obtain concurrence from the State Government Department to start the investments.
2. The design and cost of the ground water structures shall be as per the recommendations of Unit cost Committee.
3. Spacing: The minimum spacing to be maintained between dug wells / bore wells, minor irrigation works shall be as indicated below:

a.	Dug wells to dug well with or without pump set	: 150 m.
b.	Bore wells to bore well with pump sets	: 250 m.
c.	Between Dug wells & Bore wells	: 215 m.

4. Development of Wells (DOW): The spacing norms (as per 3 above) between wells (including wells for drinking purpose) may also be adhered to under DOW.
5. Electric Supply: Before approving loan for electric pump sets, the bank shall satisfy itself that the village is electrified.

6. Minimum acreage and sale of water :
- It is necessary that the beneficiary has the minimum area of land as prescribed with the model to be brought under irrigation to ensure viability of investment and repayment of loans in the prescribed periods.
 - If the beneficiary's own irrigated area is smaller than which can be irrigated by well/bore well, the bank may advise the beneficiary that he can sell surplus water to neighboring farms.
7. Selection and Installation of Pump sets:
- The bank shall ensure that the pump sets that are financed under the scheme are selected and installed as per BIS 10804.
 - Bank shall also ensure that the spacing criteria, as stipulated in 3 above, are adhered to for loans for pump sets as well.
 - Wherever loans are advanced for standby pump set, bank may ensure that the standby unit is also selected as per BIS 10804 and also that the loans, both for existing pump set and the standby unit, are recovered together within the normal recommended period of pump sets which is 9 years.
 - Where higher hp pump set is required, for use other than irrigation, with common prime mover, total hp of the pump set selected for agricultural shall not exceed 1.5 times the hp required for irrigation purpose subject to a maximum of 10 hp.
 - Capacitors: The Electric motor financed should always be provided with a starter and a capacitor matching the motor. The following KVAR rating capacitor should be used:

Below 3 hp:	1 KVAR	3 hp to 5 hp:	2 KVAR	3 hp to 7.5 hp:	3 KVAR
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8. After Sales Service:
- Bank shall ensure that adequate after sales service and repair facilities are provided by the manufacturers / dealers installing the pump set on beneficiaries' wells and that such service is free/ of nominal charge during the first year of installation.

Sprinkler System

- a. The bank should ensure that adequate water to cover the area is available.
- b. The design of the sprinkler system should be done for the crop by a competent agency taking into consideration source and availability of water, wind velocity in different seasons and suitability of the system for proposed cropping pattern.
- c. A plan of the area showing the layout of the system and cost estimate of the system should be prepared by the implementing agency.

- d. The implementing agency should offer guarantee for the operation of the system for one/two years against any defect either manufacturing / working or installation. The firm should offer regular postsales-service for maintenance.
- e. The components of the system should conform to the BIS specification:
 - With Aluminum pipes conforming to IS-7092 of 1976 (Part-I) and IS-7092 (Part-II) of 1987.
 - With HDPE pipes conforming to IS-14151 (Part-I) and IS-14151 (Part-II) of 1994.

Drip system

- a. The Bank should ensure that only a competent and approved firm installs the system.
- b. The installing agency should assess the water requirement of each plant and design the system accordingly. The bank should insist for a layout map showing the benefiting area and also the layout of the system drawn to a proper scale.
- c. Availability of water as per requirement and of suitable chemical and physical quality for smooth operation of the system should be ensured.
- d. The bank should insist upon the installing agency to prepare a plan as also layout and design of the system and also indicate cost of each item.
- e. The installing agency should guarantee for the operation of the system for minimum of 2 years and also ensure timely and proper post sales-service for the satisfactory working of the system.
- f. The system component to be installed should conform to the BIS Specification (HDPE pipe IS14151 (Part-I) 1994 and IS-14151 (Part-II) 1994 for Coupler).



B. LAND DEVELOPMENT**Unit cost of various investments under Land Development**

S. No.	Item of Investment	Unit Cost (₹)	Repayment period (Yrs)	Gestation/ Grace period (Yrs)	Instalment
1	Contour Bunding (Slope 2-4%; area of land: 1 acre (4040 sq. m))	22500	3	1	Annual
2	Gully plugging with stone (5 m)	7420	3	1	Annual
3	OFD works for 2-3% slope (1 acre)	52300	3	1	Annual
4	Reclamation of saline/ alkaline soils (1 acre)	25600	3	1	Annual
5	NADEP compost unit (10' x 6' x 3') including operational cost	32500	3	1	Annual
6	Farm Ponds 10m x 10m x 2.5m (by machine)	62100	5	1	Annual
7	Farm Ponds 10m x 10m x 2.5m (by labour)	122300	5	1	Annual
8	Farm Ponds 15m x 15m x 3m (by machine)	106100	5	1	Annual
9	Farm Ponds 15m x 15m x 3m (by labour)	241300	5	1	Annual
10	Farm Ponds 18m x 18m x 3m (by machine)	151500	5	1	Annual
11	Farm Ponds 18m x 18m x 3m (by labour)	361000	5	1	Annual
12	FP/ WHS 20m x 20m x 3m (MIDH)	150000	5	1	Annual
13	FP/ tank/ reservoir with plastic/ RCC lining 100m x 100m x 3m (MIDH)	2000000	7	1	Annual
14	Water storage tank - 18m x 9m x 1.5m	100000	5	1	Annual
15	Tiny vermicomposting unit (1.8 TPA)	38100	5	1	Annual
16	Mini vermicomposting unit (20 TPA)	418700	5	1	Annual
17	Vermi hatchery 260 TPA	1525000	7	1	Annual
18	Barbed wire fencing (rock poles) for 100 m	56500	5	1	Annual
19	Barbed wire fencing (cement poles) for 100 m	62500	5	1	Annual
20	Bio fertilizer & Bio pesticide unit (200 TPA)	22500000	10	1	Annual
21	Chain linked diamond mesh wire fencing (rock poles) for 100 m	34000	5	1	Annual
22	Chain linked diamond mesh wire fencing (cement poles) for 100 m	79200	5	1	Annual
23	Tank silt application (only transport - & application) - 0.02 m-ha	35800	5	1	Annual

C. RENEWABLE ENERGY

S. No.	Item of Investment	Unit Cost (₹)	Repayment period (Yrs)	Gestation / Grace period (Yrs)	Instalment
1	Solar Irrigation Pump set - AC Motor (5 HP)	500000	5	1	Annual
2	Solar Irrigation Pump set - DC Motor (5 HP)	558000	5	1	Annual

Grid connected Rooftop solar units

Capacity (in Kilowatt peak KWp)	Unit Cost (₹/KWp) *
1 KWp	51,100
Above 1 KWp – 2 KWp	46,980
Above 2 KWp – 3 KWp	45,760
Above 3 KWp – 10 KWp	44,640
Above 10 KWp – 100 KWp	41,640
Above 100 KWp – 500 KWp	39,080

* Above costs are as per Ministry of New and Renewable Energy (MNRE) benchmark cost 2021-22

* The above-mentioned benchmark costs are excluding net metering cost and battery back-up costs.

The above benchmark costs are inclusive of total system cost including Photo-Voltaic solar modules, inverters, balance of systems including cables, Switches/Circuit Breakers /Connectors/ Junction Boxes, mounting structure, earthing, Lightning arrester, cost of meters (if any other than net meter), local connectivity cost, cost of civil works, foundations etc. and its installation, commissioning, transportation, insurance, capital cost of online monitoring, comprehensive maintenance charges for five years, applicable fees and taxes etc.

Standalone Solar Power Plants / packs

Capacity	Battery Back up in hours	Benchmark costs (₹ per Watt peak Wp) @ without GST
Up to 10 kW	6	86
	3	68
	1	56
Above 10 kW and up to 25 kW	6	77
	3	60
	1	50



D. INTEGRATED FARMING SYSTEM

Model I – Central Telangana

Farming System	Area(Acre)
Crops (Banana and Groundnut)	0.5
Dairy (2 Buffalo Unit)	0.025
Sheep rearing (20:1)	0.0125
Fodder crops	0.25
Farm Pond (Existing)#	0.1
Agro-Silviculture (Forest trees)	0.1125
Total	1
Backyard poultry(4 batches of 50 Birds each)	50 Sq feet

Cost of construction of new farm pond (20 m x 20 m) with lining will be approximately ₹ 1.6 Lakh. Farm Pond can be used for fish rearing for additional income. The economics of the same can be seen in Fisheries chapter.

Costs

Particulars	Cost
Fixed Cost	526975
First year working capital	116200
Total project cost	643175

Particulars	Physical requirement	Unit Rate (₹)	Cost (₹)
A) Fixed costs			
Cost of establishment of Buffalo unit (1+1)	2	97500	195000
Cost of establishment of Sheep rearing unit (20+1)	21	12000	252000
Banana	0.5	108700	54350
Agro-Silviculture (Forest trees)	0.1125	50000	5625
Cost of backyard unit shed, equipment etc. (50 birds)- sq ft	50	400	20000
Subtotal			526975

Particulars	Physical requirement	Unit Rate (₹)	Cost (₹)
B) Recurring cost			
Components			
Banana – 0.5 acre	0.5	25000	12500
Groundnut (Intercrop-0.5 acre)	0.5	25000	12500
Working capital for Buffalo unit (2 nos)	2	15000	30000
Working capital for sheep unit (21 nos)	21	1200	25200
Working capital for Backyard poultry (200 nos)	200	180	36000
Sub total			116200
Total Cost			643175

Model II – Southern Telangana

Farming System	Area(Acre)
Crops(Paddy, Maize)	0.75
2 Buffalo unit	0.025
Fodder crops	0.1
Composting and vermiculture	0.025
Brinjal, Black gram	0.1
Total	1
Backyard Poultry (4 batches of 50 Birds each)	50 sq. feet

Costs:

Particulars	Cost (₹)
Fixed Cost	215000
First year working capital	127800
Total project cost	342800

Particulars	Physical requirement	Unit Rate (₹)	Cost (₹)
A) Fixed costs			
Cost of establishment of Buffalo unit (02 no's)	2	97500	195000
Cost of backyard unit shed, equipment etc. (50 birds)- sq ft.	50	400	20000
Subtotal			215000
B) Recurring cost			
Components			
Kharif Paddy Cost of Cultivation- 0.5 acre	0.5	45000	22500
Rabi Paddy Cost of Cultivation-0.5 acre	0.5	42000	21000
Brinjal Cost of Cultivation-0.1 acre	0.1	50000	5000
maize Cost of cultivation-0.25 acre	0.25	30000	7500
Black gram cost of cultivation- 0.1 acre	0.1	18000	1800
Working capital for Buffalo unit (2 nos)	2	15000	30000
Working capital for Backyard poultry (200 nos)	200	200	40000
Sub total			127800
Total Cost			342800

Model III – Northern Telangana

Farming System	Area(Acre)
Crops (Paddy, Tomato or Red gram, Ridge gourd)	0.617
Animal Husbandry (2 Buffalo unit)	0.049
Fodder crops	0.317
Composting and vermiculture	0.0247
Total	1.00

Costs

Particulars	Cost (₹)
Fixed Cost	195000
First year working capital	89564
Total project cost	284564

Particulars	Physical requirement	Unit Rate (₹)	Cost (₹)
A) Fixed costs			
Cost of establishment of Buffalo unit (02)	2	97500	195000
Subtotal			195000
B) Recurring cost			
Components			
Kharif Paddy Cost of Cultivation-0.617 acre	0.617	45000	27765
Rabi Paddy Cost of Cultivation-0.617 acre	0.617	42000	25914
Red gram Cost of Cultivation-0.049 acre	0.049	20000	980
Tomato Cost of cultivation- 0.049 acre	0.049	45000	2205
Ridge guard (intercrop) cost of cultivation	0.025	28000	700
Working capital for Buffalo unit	2	16000	32000
Sub total			89564
Total Cost			284564

***Notes:**

1. The suggested models are illustrative only. The project may be scaled up by expanding area/ increasing activities depending on local agro- climatic conditions in consultation with local KVKs/line departments.
2. Fisheries/other animal husbandry activities can be taken up for additional income with proper training and guidance.
3. Crop diversification is recommended to ensure varied sources of income.



**IFS Model for 1.0 ha developed by AICRP on IFS, PJTSAU
(On Station Research)**

Module	Area (ha)
I. Cropping Systems	
Rice-Maize	0.20
Bt cotton + Greengram- Sorghum (Fodder)	0.10
Maize-Groundnut	0.10
Pigeonpea + Sweet corn - Bajra	0.10
Maize + Pigeonpea-Sunhemp (Fodder)	0.10
Hybrid Napier and Lucerne	0.10
Sub Total	0.70
II. Horticulture	
Fruit tree- Guava, Under storey Vegetables – :Tomato, Clusterbean, Okra, Beetroot	0.20
III. Livestock	
Buffaloes -2 No's(Graded Murrah breed)	0.04
Goatery - 5No's (Osmanabadi breed)	0.015
IV. Supplementary units	
Back yard Poultry Vanaraja / Rajasri (40 H & 10 C)	0.015
V. Recycling units	
Vermi-compost unit	0.010
FYM(Open heap method)	0.010
VI. Supporting activities	
Azolla production, Dwelling unit, tube-well, irrigation channels, store house etc.,	0.010
Total	1.0 ha

**Costs and Returns from 1.0 Hectare IFS Unit Model Developed
by AICRP on IFS,PJTSAU (On Station Research)**

Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year
I Capital Costs (₹)	198062	0	0	0	0	0
ii. Recurring costs (₹)	110690	295095	407289	365866	402196	430905
Total Cost of (i+ii)	308752	295095	407289	365866	402196	430905
Production(₹)						
Total Gross Returns(₹)	263479	333161	549119	465773	549281	608595
Total Net Returns(₹)	-45273	38066	141830	99907	147085	177690

NPW @ 10 % Discount Factor ₹3,56,706

BCR @10% Discount Factor 1.22

IRR 162 %

**IFS Unit Model Developed through On Farm Research, AICRP on
IFS in Warangal District**

S.No	Module	Area (ha)
1	Cropping Systems (Rice-Maize)	0.80
2	Dairy (Buffaloes -2 Graded Murrah breed)	0.04
3	Goatery (Goats-5Nos Osmanabadi breed)	0.02
4	Back yard Poultry (20birds) (Vanaraja / Rajasri)	0.015
5	Fodder Crop(Hybrid Napier)	0.10
6	Recycling Unit	
i	Vermi Compost Unit	0.0125
ii	FYM Unit (pit method)	0.0125
	Total	1.0 ha

**Costs and Returns from 1.0 Hectare IFS Unit Model
Developed through On Farm Research in Warangal District**

Year	1st Year	2nd Year	3rd Year	4th Year
i. Capital Costs (Rs)	170000	0	0	0
ii. Recurring costs (Rs)	139200	190780	209750	230633
Total Cost of Production (Rs) (i+ii)	309200	190780	209750	230633
Total Gross Returns (Rs)	440050	469953	511348	546327
Total Net Returns (Rs)	130850	279173	301598	315694

NPW @10 % Discount Factor ₹791873

BCR @10% Discount Factor 2.05

IIR Value >300 per cent

E. FARM MECHANIZATION

S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Tractors with matching equipment and trolley (30-51 hp)	1	10.00	5	Nil	Half yearly
2	Second-hand Tractor	1	4.50	3	Nil	Half yearly
3	Mini tractor with matching equipment (15-24 hp)	1	6.50	3	Nil	Half yearly
4	Power tiller with matching equipment (12 hp)	1	2.30	3	Nil	Half yearly
5	Combined Harvester	1	26.70	7	Nil	Half yearly
6	Combined Harvester - Paddy - 75 hp	1	31.00	7	Nil	Half yearly
7	Paddy Transplanter (walking type)	1	3.00	3	Nil	Half yearly
8	Diesel based self-propelled Paddy Transplanter	1	4.20	3	Nil	Half yearly
9	Paddy Straw Baler (round)	1	3.50	3	Nil	Half yearly
10	Paddy Straw Baler (square)	1	5.00	3	Nil	Half yearly
11	Turmeric cooking Machine (2/4 drum)	1	6.10	5	Nil	Annual
12	Laser guided land leveller	1	4.25	3	Nil	Half yearly
13	Rotary Mulcher (tractor operated)	1	2.20	3	Nil	Half yearly
14	PTO operated post hole digger	1	1.30	3	Nil	Half yearly
15	Mini power weeder (2hp)	1	0.30	3	Nil	Half yearly
16	Medium (4.8 hp) power weeder	1	0.70	5	Nil	Half yearly
17	Brush cutter	1	0.36	3	Nil	Half yearly
18	Rotary weeder (self-propelled-2hp)	1	0.90	3	Nil	Half yearly
19	Solar fencing (five line 7 feet poles)	1 ha	2.50	3	Nil	Half yearly
20	Sugarcane Transplanter	1	2.25	3	Nil	Annual
21	Sugarcane Harvester - 175 hp	1	120.00	7	Nil	Annual
22	Agri Tractor Backhoe Loader (55-65 hp)	1	8.75	5	Nil	Half yearly
23	Automatic Seeding Machine	1	3.39	3	Nil	Half yearly
24	Paddy Cleaner	1	2.75	3	Nil	Half yearly
25	Tractors - average of high and medium sector					
	22 hp - 4WD	1	4.800	5	Nil	Half yearly
	24 hp- 4WD	1	5.300	5	Nil	Half yearly
	36 hp - 4WD	1	7.8-8.30	5	Nil	Half yearly
	40 hp - (2WD and 4 WD)	1	6.50-8.25	5	Nil	Half yearly

S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
	42 hp - (2WD and 4 WD)	1	6.500	5	Nil	Half yearly
	44 hp - (2WD and 4 WD)	1	7.50-8.25	5	Nil	Half yearly
	46/47 hp -(2WD and 4 WD)	1	7.80-9.50	5	Nil	Half yearly
	50 hp -(2WD and 4 WD)	1	9.800	5	Nil	Half yearly
	55 hp - (2WD and 4 WD)	1	11.500	5	Nil	Half yearly
	75 hp - 4WD	1	15.000	5	Nil	Half yearly
	Electrical tractor - 26 hp	1	6.700	5	Nil	Half yearly
26	Cotton Harvester	1	59.0	9	nil	Annual
27	Winrower – multi-crop - semi automatic - 500 kg/hr, 3 hp	1	3.000	3	Nil	Half yearly
28	Ride on Self Propelled multipurpose Agricultural tool bar with Lithium-ion Battery operated with accessories/ attachments such as (3 tyne sweep shovel cultivator, rear tub, 2 feet flail mover)	1	3.40	-	-	-

Tractor Drawn Implements						
S. No.	Name of the Activity	Unit	Unit cost (₹ period in lakh)	Repayment (yrs)	Grace period (yrs)	Instalment
1	MB plough (2 bottom)	1	0.85	3	Nil	Half yearly
2	2 Bottom disc plough with Tubular frame (Heavy duty)	1	0.80	3	Nil	Half yearly
3	Disc harrow - 6/8/12	1	1.50	3	Nil	Half yearly
4	Deep Tillage Equipment (like Chisel/ Sub soil plough)	1	0.60	3	Nil	Half yearly
5	9 Tyne rigid cultivator (Heavy duty)	1	0.48	3	Nil	Half yearly
6	11 Tyne rigid cultivator (Light duty)	1	0.58	3	Nil	Half yearly
7	11 Tyne rigid cultivator (Heavy duty)	1	0.61	3	Nil	Half yearly
8	9 Tyne spring loaded cultivator (Light duty)	1	0.48	3	Nil	Half yearly
9	9 Tyne spring loaded cultivator (Heavy duty)	1	0.53	3	Nil	Half yearly
10	Tractor Mounted Pneumatic Planter (Multi-crop Planter)	1	2.20	3	Nil	Half yearly

Tractor Drawn Implements						
S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
11	Tractor drawn manual seed cum Fertilizer drill with spring tyne cultivator and leveller- 6 tyne (ATP type)	1	0.38	3	Nil	Half yearly
12	Tractor drawn manual seed cum Fertilizer drill with spring tyne cultivator and leveller- 8 tyne (ATP type)	1	0.42	3	Nil	Half yearly
13	Tractor drawn manual seed cum fertilizer drill with rigid tyne cultivator and leveller – 6 tyne (ATP type)	1	0.44	3	Nil	Half yearly
14	Tractor drawn manual seed cum fertilizer drill with rigid tyne cultivator and leveller – 8 tyne (ATP type)	1	0.66	3	Nil	Half yearly
15	Automatic seed cum fertilizer drill with spring tyne cultivator and leveller 6 tyne (ATP type)	1	0.77	3	Nil	Half yearly
16	Automatic seed cum fertilizer drill with spring tyne cultivator and leveller 8 tyne (ATP type)	1	0.83	3	Nil	Half yearly
17	9-row seed cum fertilizer drill	1	0.70	3	Nil	Half yearly
18	Tractor drawn multi crop planter	1	1.05	3	Nil	Half yearly
19	Seed drill (multi crop including Paddy) - Tractor drawn	1	1.45	3	Nil	Half yearly
20	Happy Seeder	1	2.45	3	Nil	Annual
21	Levelling blade (7'1/2" heavy duty) 145 kg	1	1.20	3	Nil	Half yearly
22	Slim tyre & inter-culture equipment	1	0.70	3	Nil	Half yearly
23	Cotton Mobile Shredder	1	2.50	3	Nil	Annual
24	Hydraulic reversible plough - tractor mounted	1	1.20	3	Nil	Half Yearly
25	Puddler - 8 Ft	1	1.80	3	Nil	Half yearly
26	Ridge plastering machine	1	2.80	3	Nil	Half yearly

Rotavators						
S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	24 blades single speed chain drive 540 RPM Rotavator - cultivated soils	1	0.78	3	Nil	Half Yearly
2	36 blades gear drive 540 RPM (HD) Rotavator - cultivated soils	1	1.25	3	Nil	Half Yearly
3	42 Blades gear drive 540 RPM (HD) Rotavator - virgin soils	1	1.35	3	Nil	Half Yearly
4	Mini Tractor Rotavator 16/20/24 blades	1	0.80	3	Nil	Half Yearly

Plant Protection Equipment						
S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Power sprayer 16 lts. Capacity	1	0.22	3	Nil	Half Yearly
2	Power operated sprayer (Mist blower)	1	0.30	3	Nil	Half Yearly
3	Power operated sprayer (Mist blower cum Duster)	1	0.90	3	Nil	Half Yearly
4	Tractor mounted HTP Sprayer with 2 guns and frame & tank	1	0.75	3	Nil	Half Yearly
5	2 Stroke 20 Lt knapsack sprayer	1	0.31	3	Nil	Half Yearly
6	Tractor mounted boom sprayer	1	1.40	3	Nil	Annual
7	4 Stroke 25 Lt knapsack sprayer	1	0.35	3	Nil	Half Yearly
8	Drone - battery powered (Drone, 2 sets of additional battery, Generator set, Insurance, Training & License)	1	11.10	5	Nil	Half Yearly
9	Drone - Hybrid (Petrol operated, Battery backed - drone, charger, insurance, Training & License)	1	13.70	5	Nil	Half Yearly



Post-Harvest Equipment						
S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Groundnut thresher of capacity 300-500 kg/hr with 10 HP air cooled diesel engine	1	2.80	3	Nil	Annual
2	Groundnut decorticator- Rocking type of 200-400 kg pods per hour capacity with 2 HP electric motor	1	0.62	3	Nil	Annual
3	Groundnut decorticator- Rotary type of 200-400 kg pods per hour capacity with 2 HP electric motor	1	0.42	3	Nil	Annual
4	Groundnut Sheller (7.5 hp diesel engine operated)- 6 qtl/hr	1	2.85	3	Nil	Annual
5	Power Chaff cutter of 200 kg/ hour capacity with 2 HP BIS/ISI marked electric motor	1	0.40	3	Nil	Half Yearly
6	Power Chaff cutter of 500 kg/ hour capacity with 5 HP BIS/ISI marked electric motor	1	0.93	3	Nil	Half Yearly
7	Power Chaff cutter of 500 kg/hour capacity with 5 HP BIS/ISI marked diesel engine	1	1.10	3	Nil	Half Yearly
8	Maize Sheller with 2 HP electric motor - 1000 kg per hour capacity	1	1.40	3	Nil	Annual
9	Maize Sheller with 5 HP electric motor - 2000 kg per hour capacity	1	1.42	3	Nil	Annual
10	Multi crop Thresher (Wheat, Sunflower and all pulses) - 8 hp diesel engine, 1000-1500 kg/hr, mobile type, tractor drawn	1	1.40	3	Nil	Half Yearly
11	Paddy Thresher (3 Walker type) with 10 HP diesel engine of capacity 600-1000 kg/hr	1	1.50	3	Nil	Half Yearly
12	Paddy Thresher (4 Walker type) with 10	1	1.65	3	Nil	Half Yearly
13	Maize de-husker cum thresher of 3000 kg/hr (operated with PTO of tractor of >35 hp) with two pneumatic wheels	1	2.40	3	Nil	Annual
14	Maize Sheller operated with 35 hp tractor PTO - 2000 kg/hour capacity mobile type	1	1.10	3	Nil	Annual
15	Power Reaper - tractor mounted	1	2.40	3	Nil	Half Yearly
16	Power Reaper - manual	1	1.20	3	Nil	Half Yearly
17	Power Operated Groundnut Dry Pod Thresher	1	2.50	3	Nil	Annual

Post-Harvest Equipment						
S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
18	Multi crop thresher - 21-35 hp diesel engine, 3000 kg/hr, mobile type, tractor drawn	1	2.25	3	Nil	Half Yearly
19	Multi crop thresher 30-45 hp diesel engine, 4000 kg/hr, mobile type, tractor drawn	1	3.50	3	Nil	Half Yearly
20	Hydraulic Biomass Briquette Plant	1	20.00	5	Nil	Half Yearly
21	Multi grain loader	1	1.600	3	nil	Half yearly
22	Multi crop drying machine - 3.5 -4 MT/ 3 hrs	1	27.000	7	nil	Half yearly
23	Mini Raw rice mill	1	7.500	5	nil	Half yearly
24	Chilly dryer - 150-200 kg/hr	1	4.4	3	nil	Annual
25	Chilly dryer - 150 -2MT/hr	1	12	5	nil	Annual

Animal/Bullock Drawn Implements						
S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Animal-drawn 4 row seed cum fertilizer drill (Anantapur type)	1	0.40	3	Nil	Half Yearly
2	Animal-drawn 4/5 row automatic seed cum fertilizer drill (Adilabad type)	1	0.28	3	Nil	Half Yearly

Animal Husbandry Equipment -						
S. No.	Name of the Activity	Unit	Unit cost (₹ in lakh)	Repayment period (yrs)	Grace period (yrs)	Instalment
1	Milking machines - 2 bucket	1	0.59	3	Nil	Half Yearly
2	Milking machines - 4 bucket	1	1.35	3	Nil	Half Yearly
3	Solar Milking machines - single bucket - 20 L	1	0.35	3	Nil	Half Yearly
4	Feed mixing plants - poultry and cattle feed - 2 TPH	1	1.75	3	Nil	Half Yearly
5	Silage Machine - 5 hp - 4.5 MT/hr	1	1.57	3	Nil	Half Yearly

Unit Cost for Custom Hiring Centres				
Sr. No.	Name of the equipment	Unit	Rate per unit (₹ in lakh)	Total
1	CHC for Cotton (without harvester)			
a	Tractor - 50 hp	1	9.8	9.8
b	Rotavator - 36 blade	1	1.25	1.25
c	Rotavator - 42 blade	1	1.35	1.35
d	Cotton Shredder	1	2.5	2.5
e	Sprayers			0.5
	Total			15.4
2	CHC for SMSRI			
a	Paddy seeding machine	1	1.5	1.5
b	Trays	10000	0.00045	4.5
c	Paddy transplanter	2	3	6
d	Paddy transplanter	1	4.2	4.2
e	Wet land leveller	2	0.7	1.4
f	Tractor - 46/47 hp	1	8.5	8.5
g	Rotavator - 36 blade	1	1.25	1.25
h	Cage wheel	2	0.19	0.38
i	Power weeder	2	0.32	0.64
j	Paddy cleaner	1	2.75	2.75
k	Paddy harvester	1	31	31
	Total			62.12
3	CHC for Maize			
a	Tractor - 40 hp	1	8	8
b	Rotavator - 36 blade	1	1.25	1.25
c	Cultivator	1	0.48	0.48
d	Maize sheller - 2 hp	2	1.4	2.8
e	Maize de-husker	1	2.4	2.4
f	Maize harvester	1	25	25
	Total			39.93
4	CHC for Groundnut			
a	Tractor - 36 hp	1	7.8	7.8
b	Rotavator - 36 blade	1	1.25	1.25
c	Cultivator - 9 tyne	1	0.48	0.48
d	Groundnut decorticator	1	0.62	0.62
e	Groundnut thresher 300 to 500/kg per hr	1	2.85	2.85
	Total			13.00

Sr. No.	Name of the equipment	Unit	Rate per unit (₹ in lakh)	Total
5	CHC for land preparation for Paddy (Big tractor)			
a	Tractor - 50 hp	1	9.8	9.8
b	Rotavator - 24 blade	2	0.78	1.56
c	Cultivator - 9 tyne	2	0.48	0.96
d	Cage wheel - 2 pairs	2	0.19	0.38
	Total			12.7
6	CHC for land preparation for Paddy (Small tractor)			
a	Tractor - 40 hp	1	8	8
b	Rotavator - 24 blade	2	0.78	1.56
c	Cultivator - 9 tyne	2	0.48	0.96
d	Cage wheel - 2 pairs	2	0.19	0.38
	Total			10.9
7	CHC for Paddy harvesting			
a	Paddy Harvester	1	31	31
b	Paddy thresher	2	1.5	3
c	Baler - Round	1	3.5	3.5
d	Baler - Square	1	5	5
	Total			42.5
8	CHC for Sugarcane			
a	Tractor - 50 hp	1	9.8	9.8
b	Rotavator - 36 blade	2	1.25	2.5
c	Cultivator - 9 tyne	2	0.48	0.96
d	Sugarcane transplanter	1	2.25	2.25
e	Sugarcane harvester	1	120	120
	Total			135.51
9	CHC for Pulses/Soybean			
a	Tractor - 44 hp	1	8.25	8.25
b	Rotavator - 42 blade	2	1.35	2.7
c	Cultivator - 9 tyne	2	0.48	0.96
d	Seed drill - 6 tyne	2	0.7	1.4
e	Thresher	2	1.4	2.8
	Total			16.11

Sr. No.	Name of the equipment	Unit	Rate per unit (₹ in lakh)	Total
10	CHC for Dry land Crops Package			
a	Tractor - 44 hp	1	8.25	8.25
b	Rotavator - 42 blade	2	1.35	2.7
c	Cultivator - 9 tyne	2	0.48	0.96
d	Seed drill - 6 tyne	2	0.7	1.4
e	Thresher	2	1.4	2.8
	Total			16.11
11	CHC for Transplanting Package			
a	Paddy seeding machine	2	1.5	3
b	Paddy Transplanter - walking type	2	3	6
c	Paddy Transplanter - diesel powered	2	4.2	8.4
d	Trays	2000	0.0005	1
	Total			18.4
12	CHC - Harvesting Package for all Crops - except sugarcane			
a	Combined harvester	1	26.7	26.7
b	Power Reaper - tractor mounted	2	2.4	4.8
c	Power Reaper - manual	2	1.2	2.4
d	Baler - Round	1	3.5	3.5
e	Baler - Square	1	5	5
	Total			42.4
13	Paddy Nursery Package			
a	Trays	1000	0.0005	0.5
b	Paddy seeding machine	2	1.5	3
	Total			3.5
14	Post-Harvest Equipment package			
a	Shredder	1	2.5	2.5
b	Multi crop thresher	1	1.4	1.4
c	Power Reaper - tractor mounted	1	2.4	2.4
d	Power Reaper - manual	2	1.2	2.4
	Total			8.7

F. PLANTATION AND HORTICULTURE

Sl. No.	Crops	Unit cost per acre (in ₹)	Spacing	Plant Population (in Nos)	IRR (%)	BCR (%)	Repayment Period (yr)	Unit Cost Capitalized (yr)
1	Mango	63,100	7.5 m x 7.5 m	71	36	1.92	9	5
2	Mango	1,26,800	5 m x 5 m	160	31	1.48	9	5
3	Mango	1,52,500	4 m x 3 m	333	34	1.44	8	4
4	Mango	2,01,000	2.5 m x 2.5 m	640	38	1.60	7	3
5	Mango	2,21,200	3 m x 2 m	666	39	1.57	7	3
6	Citrus Species	80,200	6 m x 6 m	110	35	1.64	10	4
7	Guava	43,900	6 m x 6 m	110	44	1.95	8	4
8	Guava	1,26,900	5 m x 2.5 m	320	36	1.56	8	3
9	Guava	1,40,200	3 m x 3 m	440	42	1.75	7	2
10	Sapota	50,600	8 m x 8 m	62	33	1.70	10	5
11	Sapota	1,16,500	5 m x 5 m	160	39	1.90	8	4
12	Pomegranate	123000	5 m x 3 m	270	38	1.39	6	2
13	Custard Apple	68,200	5 m x 5 m	160	26	1.26	8	3
14	Custard Apple	124800	5 m x 2.5 m	320	30	1.32	8	3
15	Custard Apple	1,85,800	2.5 m x 2.5 m	640	31	1.51	8	3
16	Ber	50,400	5 m x 5 m	160	48	2.82	8	4
17	Apple Ber	72600	4.5 m x 3 m	300	98	3.48	4	1
18	Banana with propping material	95,700	1.8 m x 1.8 m	1240	>50	1.8	2-3	0
19	Tissue Culture Banana	108700	1.65, x 1.65 m	1470	334	1.51	2-3	
20	Aonla (Amla)	43,500	6 m x 6 m	110	38	1.51	8	4
21	Cashew	46,400	6 m x 6 m	110	49	2.24	8	5
22	Coconut (T&D)	54,300	7.5 m x 7.5 m	71	21	1.03	15	8
23	Jasmine	69,000	1.5 m x 1.5 m	1780	>50	1.61	5	1
24	Vegetable cultivation under Pandal system		3,50,024 per ha					
25	Fig	46,600	5 m x 5 m	160	49	1.52	6	3
26	Oil palm (cost/ac)	1,35,000 per ac	9 m x 9 m x 9 m	57	36.80	2.23	9	4
27	Drumstick	38,800	1.8 m x 1.8 m	1235	>50	2.71	3	1
28	Dragon Fruit	6,61,500	2.5 x 2.5 m	640x4= 2560 pts	>50	1.59	6	4
29	Date palm	6,42,810	7 m x 7 m	82				3

CROP: MANGO						
Varieties: Banganapalli, Mallika, Neelam, Totapuri						
Unit / Area (sq. m)	4000	= 1 Acre				
Spacing	7.5 x 7.5 m					
No. of Plants	71					
System of Planting/ Layout	Square					
Expenditure Statement						(in ₹)
S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2100	0	0	0	0
2	Layout and Digging of Pits	2700	600	0	0	0
3	Filling of pits	900	300	0	0	0
4	Planting & Plant Support (staking)	900	300	0	0	0
5	FYM & Fertilizers Application	600	600	900	900	1200
6	Plant protection	600	600	900	900	1500
7	Irrigation	600	600	600	600	600
8	Earthing up, Weeding & other Intercultural Operations	2400	2400	1500	1500	1500
9	Harvesting, Carriage & Packaging Cost	0	0	0	900	1200
	Sub-total - A	10800	5400	3900	4800	6000
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	2840	284	0	0	0
2	Farmyard Manure	710	1065	1065	1420	1420
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc.)	0	0	0	0	0
5	N	92	185	277	369	462
6	P	1580	753	1129	1505	1882
7	K	185	369	554	738	923
8	Irrigation (diesel/electricity/lumpsum requirements)	880	1100	1320	1540	1760
9	Plant protection	300	300	400	400	1000
10	Fencing	1000				
11	Others if any (Specify)	500				
	Sub Total- B	8087	4055	4745	5973	7446
	Total A+B	18887	9455	8645	10773	13446
C	Miscellaneous Expenses/contingency (10%) of A+B	1889				
D	Total Cost	20776	9455	8645	10773	13446
E	Number of years capitalization (Years)	5				
F	Unit Cost (rounded off to)	63100				



Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr	10 Yr & onwards
i	Yield per tree (Kg)	0	0	0	5	10	20	25	30	30	35
ii	Yield per unit (Kg/Acre)	0	0	0	355	710	1420	1775	2130	2130	2485
iii	Sale Price (₹/Kg)										20
iv	Income (₹ per acre) from Horticulture crop	0	0	0	7100	14200	28400	35500	42600	42600	49700

CROP : MANGO		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq. m)	4000	= 1 Acre
Spacing	5 m x 5 m	
No. of Plants	160	
System of Planting/ Layout	Square	

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3500	0	0	0	0
2	Layout and Digging of Pits	4200	700	0	0	0
3	Filling of pits	2100	350	0	0	0
4	Planting & Plant Support (staking)	2100	350	0	0	0
5	FYM & Fertilizers Application	1400	1400	1400	2100	2100
6	Plant protection	1050	1050	1400	1050	1750
7	Irrigation	2100	2100	2100	2100	2100
8	Earthing up, Weeding & other Intercultural Operations	2100	2100	2100	2100	2100
9	Harvesting, Carriage & Packaging Cost	0	0	0	1400	2100
	Sub-total- A	18550	8050	7000	8750	10150
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	6400	640	0	0	0
2	Farmyard Manure	1200	1200	2400	3600	3600
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc.)					
5	N	208	416	624	832	1040
6	P	848	1696	2544	3392	4240
7	K	480	960	1440	1920	2400
8	Irrigation (diesel/electricity/ lumpsum requirements)	0	0	0	0	0
9	Plant protection	1000	1000	1200	1500	1500
10	Fencing	1000				
11	Cost of Drip Irrigation	20000				
	Sub Total- B	31136	5912	8208	11244	12780
	Total A+B	49686	13962	15208	19994	22930
C	Miscellaneous Expenses/ contingency (10%) of A+B	1000	1000	1000	1000	1000
D	Total Cost	50686	14962	16208	20994	23930
E	Number of years capitalization (Years)	5				
F	Unit Cost	126800				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	0	5	10	20	35	50	60
ii	Yield per unit (Kg/Acre)	0	0	0	800	1600	3200	5600	8000	9600
iii	Sale Price (₹/Kg)	15								
iv	Income (₹ per acre) from Horticulture crop	0	0	0	12000	24000	48000	84000	120000	144000

CROP : MANGO		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq. m)	4000	= 1 Acre
Spacing	2.5 m x 2.5 m	
No. of Plants	640	
System of Planting/ Layout	Square	

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2100	0	0	0	0
2	Layout and Digging of Pits	7500	1200	0	0	0
3	Filling of pits	3000	600	0	0	0
4	Planting & Plant Support (staking)	3000	600	0	0	0
5	FYM & fertilizers Application	1500	1500	1800	2400	2400
6	Plant protection	600	600	900	900	1800
7	Irrigation	1200	1200	1200	1200	1200
8	Earthing up, Weeding & other Intercultural Operations	3000	3000	3000	3000	3000
9	Harvesting, Carriage & Packaging Cost	0	0	1500	1800	2400
	Sub-total A	21900	8700	8400	9300	10800
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	25600	2560	0	0	0
2	Farmyard Manure	6400	9600	9600	12800	12800
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N(kg)	832	1664	2496	3328	4160
6	P (kg)	14246	6784	10176	13568	16960
7	K (kg)	1664	3328	4992	6656	8320
8	Irrigation (diesel/electricity/ lumpsum requirements)	300	500	500	500	500
9	Plant protection	3200	3840	4480	5120	28800
10	Live Fencing	1000	0	0	0	0
11	others	30000	0	0	0	0
	Sub Total- B	83242	28276	32244	41972	71540
	Total A+B	105142	36976	40644	51272	82340
C	Miscellaneous Expenses/ contingency (10%) of A+B	10514	3698	4064	5127	8234
D	Total Cost	115657	40674	44708	56399	90574
E	Number of years capitalization (Years)	3				
F	Unit Cost	201000				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	3	5	10	15	20	25	30
ii	Yield per unit (Kg/Acre)	0	0	1920	3200	6400	9600	12800	16000	19200
iii	Sale Price (₹/Kg)	20								
iv	Income (₹ per acre) from Horticulture crop	0	0	38400	64000	128000	192000	256000	320000	384000

CROP : MANGO		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq. m)	4000	= 1 Acre
Spacing	4 m x 4 m	
No. of Plants	333	
System of Planting/ Layout	Square	

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	4200	0	0	0	0
2	Layout and Digging of Pits	8750	700	0	0	0
3	Filling of pits	5250	350	0	0	0
4	Planting & Plant Support (staking)	4200	350	0	0	0
5	FYM & Fertilizers Application	2100	2100	2800	2800	2800
6	Plant protection	2100	2100	2100	2100	2100
7	Irrigation	2800	2800	3500	3500	3500
8	Earthing up, Weeding & other Intercultural Operations	3500	3500	3850	4200	4200
9	Harvesting, Carriage & Packaging Cost	0	0	3500	4200	4900
	Sub-total A	32900	11900	15750	16800	17500
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	13333	1333	0	0	0
2	Farmyard Manure	3333	5000	5000	6667	6667
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	433	867	1300	1733	2167
6	P	1767	3533	5300	7067	8833
7	K	1000	2000	3000	4000	5000
8	Irrigation (diesel/electricity/lumpsum requirements)	1200	1200	1200	1200	1200
9	Paclobutrazol cost (₹/acre)				1200	1800
10	Plant protection	2000	2000	2000	2000	2000
11	Live Fencing	3000	0	0	0	0
12	Cost of Drip Irrigation	25000	0	0	0	0
	Sub Total- B	51066	15933	17800	23867	27667
	Total A+B	83966	27833	33550	40667	45167
C	Miscellaneous Expenses/contingency (10%) of A+B	4198	1392	1588	2033	2258
D	Total Cost	88164	29225	35138	42700	47425
E	Number of years capitalization (Years)	3				
H	Unit Cost	152500				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	14	18	20	25	30
ii	Yield per unit	0	0	1667	3333	4667	6000	6667	8333	10000
iii	Sale Price (₹/Kg)	20								
iv	Income (₹ per acre) from Horticulture crop	0	0	33333	66667	93340	120000	133340	166660	200000

CROP : MANGO		
Varieties : Banganapalli, Mallika, Neelam, Totapuri		
Unit / Area (sq. m)	4000	= 1 Acre
Spacing	3 x 2	
No. of Plants	666	
System of Planting/ Layout	Square	

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	5250	0	0	0	0
2	Layout and Digging of Pits	10500	1400	0	0	0
3	Filling of pits	5250	700	0	0	0
4	Planting & Plant Support (staking)	5250	700	0	0	0
5	FYM & Fertilizers Application	2800	3500	3500	3500	3500
6	Plant protection	2100	2100	2100	2100	2800
7	Irrigation	2100	2100	2100	2100	2100
8	Earthing up, Weeding & other Intercultural Operations	3500	4900	5600	6300	7000
9	Harvesting, Carriage & Packaging Cost	0	0	2800	3500	3500
	Sub-total A	36750	15400	16100	17500	18900
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	26640	2664	0	0	0
2	Farmyard Manure	6660	9990	9990	13320	13320
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc.)					
5	N	866	1732	2597	3463	4329
6	P	3530	7060	10589	14119	17649
7	K	1998	3996	5994	7992	9990
8	Irrigation (diesel/electricity/ lumpsum requirements)	2000	2000	2000	2000	2000
9	Plant protection	1700	1800	2000	2500	2500
	Paclbutrazol cost				2398	3596
10	Live Fencing	3000	0	0	0	0
11	Cost of Drip Irrigation	24000	0	0	0	0
	Sub Total- B	70394	29241	33171	45792	53384
	Total A+B	107144	44641	49271	63292	72284
C	Miscellaneous Expenses/ contingency (10%) of A+B	10714	4464	4927	6329	7228
D	Total Cost	117858	49105	54198	69621	79513
E	Number of years capitalization (Years)	3				
F	Unit Cost	221200				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	5	8	10	14	16	20	20
ii	Yield per unit	0	0	3330	5328	6660	9324	10656	13320	13320
iii	Sale Price (₹/Kg)	20								
iv	Income (₹ per acre) from Horticulture crop	0	0	66600	106560	133200	186480	213120	266400	266400



CROP : CITRUS		
Varieties : LIME/SWEET ORANGE		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	6 m x 6 m	
No. of Plants	110	
System of Planting/ Layout	Square	



Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3600	0	0	0	0
2	Layout and Digging of Pits	3000	300	0	0	0
3	Filling of pits	1200	300	0	0	0
4	Planting & Plant Support (staking)	1200	300	0	0	0
5	FYM & Fertilizers Application	900	900	1200	1200	1200
6	Plant protection	900	1200	1200	1200	1200
7	Irrigation	1800	600	800	1000	1000
8	Earthing up, Weeding, pruning & other Intercultural Operations	3000	3000	3600	3600	4500
9	Pruning and training	0	600	600	600	600
10	Harvesting, Carriage & Packaging Cost	0	0	0	1800	1800
	Sub-total-A	15600	7200	7400	9400	10300
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	3300	330	0	0	0
2	Farmyard Manure	1100	1100	1100	1100	1100
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc.)					
5	N	286	429	572	715	858
6	P	1507	933	875	1049	1166
7	K	330	462	594	726	858
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	1000	1200	1500
9	Plant protection	300	500	700	900	1100
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	0	0	0	0	0
	Sub Total- B	8623	4554	4841	5690	6582
	Total A+B	24223	11754	12241	15090	16882
C	Total Cost	24223	11754	12241	15090	16882
D	Number of years capitalization (Years)	5				
E	Unit Cost	80200				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr	10 Yr	11 Yr & onwards
i	Yield per tree (Kg)	0	0	0	10	15	25	30	35	50	60	65
ii	Yield per unit (Kg/Acre)	0	0	0	1100	1650	2750	3300	3850	5500	6600	7150
iii	Sale Price (₹/Kg)	15										
iv	Income (₹ per acre) from Horticulture crop	0	0	0	16500	24750	41250	49500	57750	82500	99000	107250



CROP : GUAVA		
Varieties : Allahabad Safeda, Lalith, others		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	6 m x 6 m	
No. of Plants	110	
System of Planting/ Layout	Square	



Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2100	0	0	0	0
2	Layout and Digging of Pits	2400	600	0	0	0
3	Filling of pits	1200	300	0	0	0
4	Planting & Plant Support (staking)	600	300	0	0	0
5	FYM & Fertilizers Application	600	600	900	900	1200
6	Plant protection	600	600	900	900	900
7	Irrigation	600	600	600	600	600
8	Earthing up, Weeding, pruning & other Intercultural Operations	1200	1200	1200	1200	1200
9	Pruning and training	600	300	300	300	300
10	Harvesting, Carriage & Packaging Cost				600	600
	Sub-total A	9900	4500	3900	4500	4800
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	3300	330	0	0	0
2	Farm Yard Manure	550	550	550	550	550
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	151	301	452	602	753
6	P	1157	466	700	933	1166
7	K	286	572	858	1144	1430
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1200	1200
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	1000	0	0	0	0
	Sub Total- B	8544	3520	4159	4829	5699
	Total A+B	18444	8020	8059	9329	10499
C	Total Cost	18444	8020	8059	9329	10499
D	Number of years capitalization (Years)	4				
E	Unit Cost	43900				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	15	20	25	30	40
ii	Yield per unit	0	0	550	1100	1650	2200	2750	3300	4400
iii	Sale Price (₹/Kg)	15								
iv	Income (₹ per acre) from Horticulture crop	0	0	8250	16500	24750	33000	41250	49500	66000

CROP : GUAVA		
Varieties : Allahabad Safeda, Lalith, others		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5 m x 2.5 m	
No. of Plants	320	
System of Planting/ Layout	Square	

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	4200	0	0	0	0
2	Layout and Digging of Pits	10500	700	0	0	0
3	Filling of pits	5250	700	0	0	0
4	Planting & Plant Support (staking)	7000	700	0	0	0
5	FYM & Fertilizers Application	1750	1750	2100	2800	2800
6	Plant protection	1400	1400	2100	2100	2800
7	Irrigation	2100	2100	2100		
8	Weeding, earthing up, pruning & other Intercultural Operations	3500	3500	3500	3500	4200
9	Harvesting, Carriage & Packaging Cost	0	0	1400	2100	3500
	Sub-total A	35700	10850	11200	10500	13300
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	16000	1600	0	0	0
2	Farmyard Manure	1600	1600	1600	1600	1600
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	438	876	1314	1752	2190
6	P	2726	1357	2035	2035	2714
7	K	832	1664	2496	3328	4160
8	Irrigation (diesel/electricity/ lumpsum requirements)	800	1000	1200	1500	1500
9	Plant protection	1000	1500	1500	2000	2000
10	Fencing	1000	0	0	0	0
11	Drip Irrigation cost	25000	0	0	0	0
	Sub Total- B	49396	9597	10145	12216	14164
	Total A+B	85096	20447	21345	22716	27464
C	Total Cost	85096	20447	21345	22716	27464
D	Number of years capitalization (Years)	3				
E	Unit Cost	126900				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	12	15	20
ii	Yield per unit (Kg/Acre)	0	0	1600	3200	3840	4800	6400
iii	Sale Price (₹/Kg)	15						
iv	Income (₹ per acre) from Horticulture crop	0	0	24000	48000	57600	72000	96000

CROP : GUAVA		
Varieties : Allahabad Safeda, Lalith, others		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	3 m x 3 m	
No. of Plants	440	
System of Planting/ Layout	Square	

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	9000	600	0	0	0
3	Filling of pits	6000	600	0	0	0
4	Planting & Plant Support (staking)	6000	900	0	0	0
5	FYM & Fertilizers Application	2400	2400	3000	3000	3000
6	Plant protection	1200	1200	1800	1800	3000
7	Irrigation	1200	1200	1200		
8	Earthing up, Weeding, pruning & other Intercultural Operations	900	900	1500	1500	1800
9	Pruning and training	600	3000	3000	3000	3600
10	Harvesting, Carriage & Packaging Cost	0	0	1800	2400	3000
	Sub-total A	30300	10800	12300	11700	14400
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	17600	1760	0	0	0
2	Farmyard Manure	2200	2200	2200	2200	2200
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	602	1205	1807	2409	3012
6	P	4805	1866	2798	2798	3731
7	K	1144	2288	3432	4576	5720
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1500	1500
9	Plant protection	440	300	400	400	600
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	23000	0	0	0	0
	Sub Total- B	51591	10618	11837	13884	16763
	Total A+B	81891	21418	24137	25584	31163
C	Miscellaneous expenses	8189	2142	2414	2558	3116
D	Total Cost	90080	23560	26551	28142	34279
E	Number of years capitalization (Years)	3				
F	Unit Cost	140200				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	14	20	24
ii	Yield per unit (Kg/Acre)	0	0	2200	4400	6160	8800	10560
iii	Sale Price (₹/Kg)	15						
iv	Income (₹ per acre) from Horticulture crop	0	0	33000	66000	92400	132000	158400



CROP: SAPOTA		
Varieties: PKM-1; PKM-3, DWARAPUDI, CRICKET BALL		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5 m x 5 m	
No. of Plants	160	
System of Planting/ Layout	Square	



Expenditure Statement

(in ₹)


S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3500	0	0	0	0
2	Layout and Digging of Pits	5250	700	0	0	0
3	Filling of pits	2100	700	0	0	0
4	Planting & Plant Support (staking)	2100	700	0	0	0
5	FYM & Fertilizers Application	1400	1400	1400	1400	2100
6	Plant protection	1400	1400	1400	1400	2100
7	Irrigation	2100	600	800	1000	1000
8	Earthing up, Weeding, pruning & other Intercultural Operations	2100	2100	2800	2800	3500
9	Pruning and training	0	0	0	0	0
10	Harvesting, Carriage & Packaging Cost	0	0	1400	1400	2100
	Sub-total A	19950	7600	7800	8000	10800
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	4800	480	0	0	0
2	Farmyard Manure	1600	2400	3200	4000	4800
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc.)	0	0	0	0	0
5	N	416	832	1248	1664	2080
6	P	1696	2544	3392	4240	4240
7	K	960	1440	1920	2400	2400
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	1000	1000	1000
9	Plant protection	1000	1000	1000	1000	1000
10	Fencing	0	0	0	0	0
11	Others if any (Specify)	0	0	0	0	0
	Sub Total- B	11272	9496	11760	14304	15520
C	Total Cost	31222	17096	19560	22304	26320
D	Number of years capitalization (Years)	5				
E	Unit Cost	116500				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr	10 Yr & onwards
i	Yield per tree (Kg)	0	0	0	5	20	30	40	50	60	70
ii	Yield per unit (Kg/Acre)	0	0	0	800	3200	4800	6400	8000	9600	11200
iii	Sale Price (₹/Kg)	12									
iv	Income (₹ per acre) from Horticulture crop	0	0	0	9600	38400	57600	76800	96000	115200	134400



CROP : POMEGRANATE		
Varieties : GANESH, MRIDULA, BHAGUA, JALORE SEEDLESS		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5 m x 3 m	
No. of Plants	270	


Expenditure Statement

(in ₹)


S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	9000	600	0	0	0
3	Filling of pits	3000	600	0	0	0
4	Planting & Plant Support (staking)	1800	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1200	1800	1800
6	Plant protection	1200	1500	2100	2400	2400
7	Irrigation	600	600	900	2400	2400
8	Earthing up, Weeding, pruning & other Intercultural Operations	1800	1800	2400	3000	3600
9	Harvesting, Carriage & Packaging Cost	0	0	1200	1800	2400
	Sub-total A	21600	6600	7800	11400	12600
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	17550	1755	0	0	0
2	Farmyard Manure	2700	2700	2700	5400	8100
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc.)					
5	N	702	2106	2106	2106	2106
6	P	1431	3578	3578	3578	3578
7	K	2025	2025	2025	2025	2025
8	Irrigation (diesel/electricity/lumpsum requirements)	1000	1500	2000	2000	2000
9	Plant protection	900	1500	2100	2400	2400
10	Fencing	1000	0	0	0	0
11	Others if any (Specify) Drip Irrigation	30000	0	0	0	0
	Sub Total- B	57308	15164	14509	17509	20209
C	Total Cost	78908	21764	22309	28909	32809
D	Number of years capitalization (Years)	3				
E	Unit Cost	123000				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr
i	Yield per tree (Kg)	0	0	10	15	20	25
ii	Yield per unit (Kg/Acre)	0	0	2700	4050	5400	6750
iii	Sale Price (₹/Kg)	15					
iv	Income (₹ per acre) from Horticulture crop	0	0	40500	60750	81000	101250



CROP : BER	
Varieties : GOLLA, UMRAN,	
Unit / Area (sq m)	4000 = 1 Acre
Spacing	5 m x 5 m
No. of Plants	160
System of Planting/ Layout	Square


Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2400	0	0	0	0
2	Layout and Digging of Pits	4800	600	0	0	0
3	Filling of pits	1500	300	0	0	0
4	Planting & Plant Support (staking)	900	300	0	0	0
5	FYM & Fertilizers Application	600	600	900	900	900
6	Plant protection	600	600	600	600	600
7	Irrigation	600	600	600		
8	Earthing up, Weeding, pruning & other Intercultural Operations	2400	1800	1500	1500	1500
9	Pruning and training	0	0	0	0	0
10	Harvesting, Carriage & Packaging Cost	0	0	600	600	1200
	Sub-total	13800	4800	4200	3600	4200
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	5600	560	0	0	0
2	Farmyard Manure	800	800	800	800	800
3	Vermicomposting	0	0		0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	208	416	624	832	1040
6	P	1768	848	1272	1696	2120
7	K	208	416	624	416	1040
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800	0	0
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	480	0	0	0	0
	Sub Total- B	11164	4140	4520	4144	5600
C	Total Cost	24964	8940	8720	7744	9800
D	Number of years capitalization (Years)	4				
E	Unit Cost	50400				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	0	0	10	15	25	40	65	80
ii	Yield per unit	0	0	0	1600	2400	4000	6400	10400	12800
iii	Sale Price (₹/Kg)	10								
iv	Income (₹ per acre) from Horticulture crop	0	0	0	16000	24000	40000	64000	104000	128000



CROP : APPLE BER	
Varieties : GOLA, UMRAN,	
Unit / Area (sq m)	4000 = 1 Acre
Spacing	4.5 m x 3 m
No. of Plants	300
System of Planting/ Layout	Square



Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	6000	1200	0	0	0
3	Filling of pits	3600	600	0	0	0
4	Planting & Plant Support (staking)	1800	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1800	1800	1800
6	Plant protection	600	600	900	900	1200
7	Irrigation	600	600	600		
8	Earthing up, Weeding & other Intercultural Operations	2400	3000	3000	3000	3000
9	Training and pruning (heading 1200 back of tree and clearing)	6000	6000	6000	6000	
10	Harvesting, Carriage & Packaging Cost	0	600	1200	1200	1800
	Sub-total A	20400	14100	13500	12900	13800
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	18000	1800	0	0	0
2	Farm Yard Manure	1500	1500	1500	1500	1500
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	390	780	1170	1560	1950
6	P	3315	1590	2385	3180	3975
7	K	390	780	1170	780	1950
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800	0	0
9	Plant protection	300	300	400	400	600
10	Fencing	5000	0	0	0	0
11	Others if any (Specify)	900	0	0	0	0
	Sub Total- B	30595	7550	7425	7420	9975
C	Total Cost	50995	21650	20925	20320	23775
D	Number of years capitalization (Years)	2				
E	Unit Cost	72600				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr	9 Yr & onwards
i	Yield per tree (Kg)	0	10	20	40	60	70	80	100	100
ii	Yield per unit	0	3000	6000	12000	18000	21000	24000	30000	30000
iii	Sale Price (₹/Kg)	10								
iv	Income (₹ per acre) from Horticulture crop	0	30000	60000	120000	180000	210000	240000	300000	300000



CROP : TISSUE CULTURE BANANA	
Varieties : Grand Naine	
Unit / Area (sq m)	4000 = 1 Acre
Spacing	1.65 m x 1.65 m
No. of Plants	1470

**Expenditure Statement**

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2450	0	0	0	0
2	Layout and Digging of Pits	8750	400	400	0	0
3	Filling of pits	3500	200	200	0	0
4	Planting & Plant Support (staking)	4200	200	200	0	0
5	FYM & Fertilizers Application	1750	1750	1750	1050	1050
6	Plant protection	1500	1500	1500	1400	1400
7	Irrigation	4200	4200	4200	800	800
8	Earthing up, Weeding, pruning & other Intercultural Operations	2800	2800	2800	2800	2800
9	Harvesting, Carriage & Packaging Cost	3500	3500	3500	1050	1750
	Sub-total A	32650	14550	14550	7100	7800
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	20580	2058	2058	0	0
2	Farmyard Manure	1764	1764	1764	1764	1764
3	Vermicomposting					
4	Other concentrated manures (Bonemeal, fish meal etc)	3440	3440	3440	3440	3440
5	N	7791	7791	7791	7791	7791
6	P	9555	9555	9555	9555	9555
7	K	300	300	300	400	600
8	Irrigation (diesel/electricity/lumpsum requirements)	0	0	0	0	0
9	Plant protection	0	0	0	0	0
10	Fencing	0	0	0	0	0
11	Staking / Propping	0	0	0	0	0
	Wooden poles (@ 2 poles per plant) - Rs. 10 /- per pole	29400	0	0	0	0
	Labour for fixing poles including rope, etc.	2500	0	0	0	0
	Sub Total- B	75330	24908	24908	22950	23150
C	Misc. Expenses (LS)	700				
D	Total Cost	108680	39458	39458	30050	30950
E	Number of years capitalization (Years)	1				
F	Unit Cost	108700				

Yield Parameters

S.No.	Yield & Price – Assumption	1 Year
i	Yield per tree (Kg)	70
ii	Yield per unit (Kg/Acre)	92600
iii	Sale Price (₹/Kg)	1
iv	Income (₹ per acre) from Horticulture crop	92600



CROP : AONLA		
Varieties : NA7, AMRIT (Na6), KANCHAN, BSR-1 (Pharmaceutical use), others		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	6Mx6M	
No. of Plants	110	
System of Planting/ Layout	Square	

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	1200	0	0	0	0
2	Layout and Digging of Pits	1200	300	0	0	0
3	Filling of pits	1200	300	0	0	0
4	Planting & Plant Support (staking)	600	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1800	1800	1800
6	Plant protection	600	600	600	600	600
7	Irrigation	600	600	600	600	600
8	Earthing up, Weeding & other Intercultural Operations	2400	1800	2400	2400	3000
9	Training and pruning	2	4	0	0	0
10	Harvesting, Carriage & Packaging Cost	0	0	1200	1800	2400
	Sub-total A	9002	5104	6600	7200	8400
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	2750	275	0	0	0
2	Farmyard Manure	550	550	550	550	550
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	151	226	452	602	602
6	P	1157	292	583	700	700
7	K	286	286	429	429	429
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800	0	0
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	0	0	0	0	0
	Sub Total- B	6994	2728	3214	2681	2881
C	Total Cost	15996	7832	9814	9881	11281
D	Number of years capitalization (Years)	4				
E	Unit Cost	43500				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr
i	Yield per tree (Kg)	0	0	5	15	20	30	35	40
ii	Yield per unit	0	0	550	1650	2200	3300	3850	4400
iii	Sale Price (₹/Kg)	10							
iv	Income (₹ per acre) from Horticulture crop	0	0	5500	16500	22000	33000	38500	44000

CROP: CASHEW		
Varieties: BPP1 to 6, BPP - 8 & 9		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	6 m x 6 m	
No. of Plants	110	
System of Planting/ Layout	Square	



Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2100	0	0	0	0
2	Layout and Digging of Pits	2100	300	0	0	0
3	Filling of pits	600	300	0	0	0
4	Planting & Plant Support (staking)	600	0	0	0	0
5	FYM & Fertilizers Application	600	600	900	900	1200
6	Plant protection	600	600	900	900	1500
7	Irrigation	300	300	300	0	0
8	Earthing up, Weeding, pruning & other Intercultural Operations	1200	1500	1500	1500	1800
9	Pruning and training	0	0	0	0	0
10	Harvesting, Carriage & Packaging Cost	0	0	0	600	1200
	Sub-total A	8100	3600	3600	3900	5700
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	3300	330	0	0	0
2	Farmyard Manure	550	550	550	1100	1100
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	151	226	452	602	753
6	P	233	233	466	700	700
7	K	114	114	229	343	343
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1200	1200
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
	Sub Total- B	6448	2753	3297	4345	4696
C	Total Cost	14548	6353	6897	8245	10396
D	Number of years capitalization (Years)	5				
E	Unit Cost	46400				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7Yr	8 Yr
i	Yield per tree (Kg)	0	0	0	0	2	5	8	10
ii	Yield per unit	0	0	0	0	220	550	880	1100
iii	Sale Price (₹/Kg)	35							
iv	Income (₹ per acre) from Horticulture crop	0	0	0	0	7700	19250	30800	38500



CROP : COCONUT		
Varieties : TALL X DWARF HYBRIDS		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	7.5 m x 7.5 m	
No. of Plants	71	
System of Planting/ Layout	Square	



Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2100	0	0	0	0
2	Layout and Digging of Pits	1800	600	0	0	0
3	Filling of pits	600	300	0	0	0
4	Planting & Plant Support (staking)	600	300	0	0	0
5	FYM & Fertilizers Application	600	900	900	900	900
6	Plant protection	600	1200	1200	1200	1200
7	Irrigation	600	600	600	600	600
8	Earthing up, Weeding, pruning & other Intercultural Operations	2100	1800	1800	1800	1800
9	Pruning and training	0	0	0	0	0
10	Harvesting, Carriage & Packaging Cost	0	0	0	0	0
	Sub-total	9000	5700	4500	4500	4500
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	4615	462	0	0	0
2	Farmyard Manure	710	710	710	710	710
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	117	224	340	447	447
6	P	301	602	753	1129	1129
7	K	369	554	923	1292	1846
8	Irrigation (diesel/electricity/lumpsum requirements)	800	800	800	800	800
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
	Sub Total- B	8212	3651	3926	4778	5532
	Total A+B	17212	9351	8426	9278	10032
C	Total Cost	17212	9351	8426	9278	10032
D	Number of years capitalization (Years)	5				
E	Unit Cost	54300				

Yield Parameters

S. No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr	8 Yr	9 Yr	10 Yr	11 Yr & onwards
i	Yield per tree (Kg)	0	0	0	0	20	40	60	85	100	110	120
ii	Yield per	0	0	0	0	1420	2840	4260	6035	7100	7810	8520
iii	Sale Price (₹/Kg)	5										
iv	Income (₹ per acre) from Horticulture crop	0	0	0	0	7100	14200	21300	30175	35500	39050	42600



CROP : JASMINE		
Varieties: J. sambac / Gundumalle		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	1.5 m x 1.5 m	
No. of Plants	1780	
System of Planting/ Layout	Square	



Expenditure Statement

(in ₹)


S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	2100	0	0	0	0
2	Layout and Digging of Pits	6000	0	0	0	0
3	Filling of pits	3000	0	0	0	0
4	Planting & Plant Support (staking)	2400	0	0	0	0
5	FYM & Fertilizers Application	600	1200	1200	1200	1200
6	Plant protection	800	800	800	1200	1200
7	Irrigation	600	800	800	800	800
8	Earthing up, Weeding, pruning & other Intercultural Operations	3000	3000	3000	3000	3600
9	Harvesting & Packaging Cost	8900	17800	26700	35600	35600
	Sub-total	27400	23600	32500	41800	42400
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	21360	0	0	0	0
2	Farmyard Manure	8900	5340	5340	5340	5340
3	Vermicomposting	3560	7120	7120	10680	14240
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	1462	1462	1462	1462	1462
6	P	2830	2830	2830	2830	2830
7	K	1388	1388	1388	1388	1388
8	Irrigation (diesel/electricity/lumpsum requirements)	1000	1500	2000	2000	2000
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	0	0	0	0	0
	Sub Total- B	41801	19941	20541	24101	27861
C	Total Cost	69201	43541	53041	65901	70261
D	Number of years capitalization (Years)	1				
E	Unit Cost	69000				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr
i	Yield per plant (Kg)	0.5	1
ii	Yield per unit (Kg/Acre)	890	1780
iii	Sale Price (₹/Kg)	42	
iv	Income (₹ per acre) from Horticulture crop	37380	74760



CROP : FIG		
Varieties : Pune fig		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5 m x 5 m	
No. of Plants	160	



Expenditure Statement

(in ₹)


S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	1500	600	0	0	0
3	Filling of pits	1200	300	0	0	0
4	Planting & Plant Support (staking)	1200	300	0	0	0
5	FYM & Fertilizers Application	1200	1200	1200	1200	1200
6	Plant protection	600	900	1200	1200	1800
7	Irrigation	600	600	800	800	800
8	Earthing up, Weeding, pruning & other Intercultural Operations	1200	1500	1500	1500	1500
9	Harvesting, Carriage & Packaging Cost	0	0	600	900	1500
	Sub-total	10500	5400	5300	5600	6800
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	4000	400	0	0	0
2	Farmyard Manure	1600	2400	4000	4000	4800
3	Vermicomposting	1120	1120	2240	3360	4480
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	131	263	394	526	657
6	P	322	645	967	1290	1612
7	K	254	508	761	1015	1269
8	Irrigation (diesel/electricity/lumpsum requirements)	500	750	1000	2000	2000
9	Plant protection	300	300	400	400	600
10	Fencing	1000	0	0	0	0
	Sub Total- B	9228	6385	9763	12591	15418
C	Total Cost	19728	11785	15063	18191	22218
D	Number of years capitalization (Years)	3				
E	Unit Cost	46600				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	3	5	7	9	11	13
ii	Yield per unit (Kg/Acre)	0	480	800	1120	1440	1760	2080
iii	Sale Price (₹/Kg)	25						
iv	Income (₹ per acre) from Horticulture crop	0	12000	20000	28000	36000	44000	52000



CROP : CUSTARD APPLE		
Varieties : NMK -1		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5 m x 5 m	
No. of Plants	160	
System of Planting/ Layout	Square	



Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3600	0	0	0	0
2	Layout and Digging of Pits	4800	600	0	0	0
3	Filling of pits	1800	600	0	0	0
4	Planting & Plant Support (staking)	1800	300	0	0	0
5	FYM & fertilizers Application	1200	1200	1800	1800	2400
6	Plant protection	600	600	900	900	1500
7	Irrigation	1800	1800	1800	0	0
8	Earthing up, Weeding, pruning & other Intercultural Operations	1800	1800	1800	2400	2400
9	Pruning and training	1200	1200	1200	1800	1800
10	Harvesting, Carriage & Packaging Cost	0	0	1200	1800	1500
	Sub-total	18600	8100	8700	8700	9600
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	9600	960	0	0	0
2	Farmyard Manure	1600	1600	1600	1600	1600
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)	0	0	0	0	0
5	N	548	657	767	876	986
6	P	1060	1272	2120	3392	3816
7	K	520	624	1040	1664	1872
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1500	1500
9	Plant protection	300	600	900	1200	1500
10	Fencing	1000	0	0	0	0
11	Others if any (Specify)	3000	0	0	0	0
	Sub Total- B	18428	6713	7627	10232	11274
C	Total Cost	37028	14813	16327	18932	20874
D	Number of years capitalization (Years)	3				
E	Unit Cost	68200				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	15	18	20
ii	Yield per unit (Kg/Acre)	0	0	800	1600	2400	2880	3200
iii	Sale Price (₹/Kg)	15						
iv	Income (₹ per acre) from Horticulture crop	0	0	12000	24000	36000	43200	48000



CROP : CUSTARD APPLE		
Varieties : NMK -1		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	5 m x 2.5 m	
No. of Plants	320	
System of Planting/ Layout	Square	

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3600	0	0	0	0
2	Layout and Digging of Pits	9600	600	0	0	0
3	Filling of pits	3900	600	0	0	0
4	Planting & Plant Support (staking)	1800	600	0	0	0
5	FYM & fertilizers Application	1200	1200	1800	1800	2400
6	Plant protection	600	600	900	900	1500
7	Irrigation	1800	1800	1800		
8	Earthing up, Weeding, pruning & other Intercultural Operations	2400	2400	3000	3000	3600
9	Pruning and training	1800	1800	1800	1800	1800
10	Harvesting, Carriage & Packaging Cost	0	0	1500	2400	3000
	Sub-total A	26700	9600	10800	9900	12300
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	19200	1920	0	0	0
2	Farmyard Manure	3200	3200	3200	3200	3200
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	1095	1314	1533	1752	1971
6	P	2120	2544	4240	6784	7632
7	K	1040	1248	2080	3328	3744
8	Irrigation (diesel/electricity/lumpsum requirements)	800	1000	1200	1500	1500
9	Plant protection	300	600	900	1200	1500
10	Fencing	1000	0	0	0	0
11	Drip Irrigation system	24000	0	0	0	0
	Sub Total- B	52755	11826	13153	17764	19547
C	Total Cost	79455	21426	23953	27664	31847
D	Number of years capitalization (Years)	3				
E	Unit Cost	124800				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	5	10	12	15	20
ii	Yield per unit (Kg/Acre)	0	0	1600	3200	3840	4800	6400
iii	Sale Price (₹/Kg)	15						
iv	Income (₹ per acre) from Horticulture crop	0	0	24000	48000	57600	72000	96000

CROP : CUSTARD APPLE		
Varieties : NMK -1		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	2.5 m x 2.5 m	
No. of Plants	640	
System of Planting/ Layout	Square	


Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	4200	0	0	0	0
2	Layout and Digging of Pits	10500	1400	0	0	0
3	Filling of pits	5250	1400	0	0	0
4	Planting & Plant Support (staking)	4200	700	0	0	0
5	FYM & fertilizers Application	2100	2100	2100	2100	2800
6	Plant protection	1400	1750	2100	2100	2800
7	Irrigation	4200	4200	4200		
8	Earthing up, Weeding, pruning & other Intercultural Operations	2100	2100	2100	2100	2100
9	Pruning and training	2100	2100	2800	2800	3500
10	Harvesting, Carriage & Packaging Cost	0	0	2800	2800	3500
	Sub-total	36050	15750	16100	11900	14700
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	25600	2560	0	0	0
2	Farmyard Manure	6400	6400	6400	6400	6400
3	Vermicomposting	0	0	0	0	0
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	2080	2080	2080	3328	3328
6	P	4240	4240	4240	8480	8480
7	K	2400	2400	2400	4800	4800
8	Irrigation (diesel/electricity/lumpsum requirements)	0	0	0	0	0
9	Plant protection	1000	1000	1500	1500	2000
10	Fencing	2000	0	0	0	0
11	Others if any (Specify)	30000	0	0	0	0
	Sub Total- B	73720	18680	16620	24508	25008
C	Misc / contingencies (5% of A and B above)	5489	1722	1636	1820	1985
D	Total Cost	115259	36152	34356	38228	41693
E	Number of years capitalization (Years)	3				
F	Unit Cost	185800				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	6 Yr	7 Yr & onwards
i	Yield per tree (Kg)	0	0	6	8	12	15	15
ii	Yield per unit (Kg/Acre)	0	0	3840	5120	7680	9600	9600
iii	Sale Price (₹/Kg)	15						
iv	Income (₹ per acre) from Horticulture crop	0	0	57600	76800	115200	144000	144000

CROP : Drumstick			
Varieties : PKM- 1			
Unit / Area (sq m)	4000	= 1 Acre	
Spacing	1.8 m x 1.8 m		
No. of Plants	1235		

Expenditure Statement

(in ₹)

S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4	Yr-5
A	Labour					
1	Land Clearing & Development	3000	0	0	0	0
2	Layout and Digging of Pits	6000	400	400	0	0
3	Filling of pits	3000	200	200	0	0
4	Planting & Plant Support (staking)	3000	200	200	0	0
5	FYM & fertilizers Application	1500	1500	1500	900	900
6	Plant protection	1500	1500	1500	1200	1200
7	Irrigation	600	600	600	800	800
8	Earthing up, Weeding, pruning & other Intercultural Operations	3000	3000	3000	2400	2400
9	Harvesting, Carriage & Packaging Cost	3500	3500	3500	900	1500
	Sub-total	25100	10900	10900	6200	6800
B	Material					
1	Planting Material (including transportation) - Seedling/Rootstock	5340	534	534	0	0
2	Farmyard Manure	2225	2225	2225	2225	2225
3	Vermicomposting	1780	1780	1780	3560	3560
4	Other concentrated manures (Bonemeal, fish meal etc)					
5	N	609	609	609	609	609
6	P	673	673	673	673	673
7	K	1765	1765	1765	1765	1765
8	Irrigation (diesel/electricity/lumpsum requirements)	1000	1000	2000	2000	2000
9	Plant protection	300	300	300	400	600
10	Fencing	0	0	0	0	0
11	Staking / Propping	0	0	0	0	0
	Sub Total- B	13692	8886	9886	11232	11432
	Total A+B	38792	19786	20786	17432	18232
D	Total Cost	38792	19786	20786	17432	18232
E	Number of years capitalization (Years)	1				
H	Unit Cost	38800				

Yield Parameters

S.No.	Yield & Price - Assumption	1 Yr	2 Yr
i	Yield per plant (Kg)	2	8
ii	Yield per unit (Kg/Acre)	800	3200
iii	Sale Price (₹/Kg)	15	
iv	Income (₹ per acre) from Horticulture crop	12000	48000



CROP : DRAGON FRUIT		
Varieties: PKM- 1		
Unit / Area (sq m)	4000	= 1 Acre
Spacing	2.5 m x 2.5 m	
No. of Plants	1600	



- The crop is commercially cultivated in countries like Vietnam, Thailand, Israel, Malaysia and Sri Lanka
- It is an exotic fruit introduced for cultivation in India. The crop is cultivated to a very limited extent of about 3000 hectares in the country mostly in the States of Karnataka, Maharashtra, Gujarat, Andhra Pradesh, Telangana and Tamil Nadu.
- A few farmers in AP have taken up dragon fruit cultivation in Sangareddy and Medak districts.
- Dept. of Hort. submitted the proposal for fixation of unit cost considering agro-climatic suitability and potential market. The techno-economic parameters were provided by Hort. University.
- Key technical aspects include:
 1. It's a cactus group plant that adapts to tropical climate
 2. Propagation by cuttings / seed
 3. Climbing plants that requires framework of poles for physical support (cement concrete or stone post)
 4. 400 to 420 supporting poles required / acre
 5. Planting 2.5 m X 2.5 m and 4 plants per pole
 6. Bearing from 2nd year, but commercial production from fourth year

Unit Cost

(in ₹)

A	Material	Year 1	Year 2
1	Planting Material (including transportation) – Seedling/Rootstock	256000	0
2	Farmyard Manure	8000	0
3	Vermicomposting	0	0
4	Other concentrated manures (Bonemeal, etc.)		
5	N	1313	1641
6	P	11089	6161
7	K	3433	2452
8	Irrigation (diesel/electricity/LS provision)	25000	2000
9	Plant protection	3000	5000

Unit Cost

(in ₹)

A	Material	Year 1	Year 2
10	Fencing	0	0
11	Erection of stones/CC pillars of 10' height at 2.5 x 2.5 spacing @ ₹ 350 per pillar	224000	0
12	Planting & Plant Support (staking)/steel framing & erection	64000	
	Sub Total- A	595835	17254
B	Labour (B)	30040	18400
	Total A+B	625875	35654
	Rounded	625900	35600
	Unit Cost capitalized (2 years)	661500	

Yield Parameters

Yield & Price - Assumption	1 Yr	2 Yr	3 Yr	4 Yr
Yield per tree (Kg)	0	0.9	1.25	1.8
Yield per unit (Kg/Acre)	0	2304	3200	4608
Sale Price (₹/Kg)	100			
Income (₹ per acre)	0	230400	320000	460800

Financial viability and repayment:

- Financial viability: IRR >50%, BCR 1.59 : 1.00
- Repayment: 6 years including three years grace period

Suggestions:

Banks may examine the following aspects while considering the proposals for extending credit facilities,

1. Feasibility of the proposed area for the crop and capability of the farmer/entrepreneur to take up such innovative activity.
2. Arrangements for supply / sourcing of plant material
3. Technology support available from KVKs or Horticulture department officials for cultivation of crop
4. Considering high initial investment where plant material and supporting framework together account for ₹ 5.50 lakh, financial capability of the farmers to meet adequate financial resources in addition to bank loan
5. At present market is confined to a few segments. The strategy proposed to be adopted by the entrepreneur for marketing of the produce (which is perishable) needs to be carefully examined by the bankers. If exports are envisaged, market demand analysis of importing countries, regulations, etc. need to be carefully examined.
6. A cautious approach is suggested before contemplating large scale finance by the bankers for the activity.

PANDAL BASED VEGETABLE CULTIVATION
Cost for Establishment of Permanent Pandal (1 Acre)

Sl. No.	Name of the Material with Specification	Unit	Quantity	Rate (₹)	Amount (₹)
1	Stone/Cement Pillars (10 ft height)	No.s	185	550	101750
2	Stone/Cement Pillars (6 ft height)	No.s	12	400	4800
3	Hiders	No.s	120	200	24000
4	GI Wire				
a	8 Gauge (70-90 gsm)	Qtls	6	9500	57000
b	12 Gauge (70-90 gsm)	Qtls	6	9500	57000
5	Labour Charges (L.S)				48350
	Total				292900

Detailed Unit Cost of Permanent Pandal (Per Acre)

Sl.No.	Name of Component	Unit Cost (in ₹)
1	Establishment of Permanent Pandal	292900
2	Land preparation and miscellaneous expenditure	2,324
3	Mulching	11,200
4	Cost of Vegetable seedlings/seeds	13,000
5	Organic Manures	12,000
6	Thaiwan Sprayer	18,500
7	Trellis	5,000
8	Fertilizers, Fungicides, Pesticides and	9,100
9	Plastic crates	10,000
	Total	3,74,024

CROP : Oil Palm	
Varieties : Tenera Hybrid	
Unit / Area (sq m)	4000 = 1 Acre
Spacing	9 m x 9 m x 9 m
System of Planting/ Layout	Triangular

		(in ₹)			
S.No	Particulars	Yr-1	Yr-2	Yr-3	Yr-4
A	Material Cost				
1	Land preparation and levelling	5000	0	0	0
2	Internal road formation for transportation	0	0	0	0
3	Planting Material (incl. 10% extra during 2nd year) (@ 193/- per plant for imported seedling)	11600	1160	0	0
4	Farmyard Manure	4275	6477	6477	6477
5	Fertilizers				
a	Nitrogen	298	595	895	894
b	Phosphorus	321	641	962	962
c	Potassium	228	456	684	855
d	Micronutrients – Magnesium (MgSO ₄)	80	143	285	285
e	Micronutrients – Boron (Borax)	64	128	257	257
6	Plant Protection Chemicals	500	500	700	700
7	Herbicide Cost	500	500	500	500
8	Drip Irrigation	25914	0	0	0
	Sub-total	48780	10600	10760	10930
B	Operation and Labour	15000	9000	9000	12000
C	Pruning, Harvesting charges etc.				3000
D	Misc. Costs (Rs.)	2930	1000	1000	1000
	TOTAL (rounded off)	66710	20600	20760	26930
	Unit cost capitalized up to the year	4			
	Indicative Unit cost	135000			

CROP : DATE PALM		
Unit / Area (sq. m)	4000	= 1 Acre
Spacing	7 m x 7 m	
No. of Plants	82	

Expenditure Statement		(in ₹)		
S.No	Particulars	Yr-1	Yr-2	Yr-3
A	Material			
1	Planting Material (Female)	297500	35000	0
2	Male Saplings (5 nos)	3000	1000	0
3	Manure and fertilizer	50000	25000	25000
4	Irrigation	35000	5000	5000
5	Plant Protection	5000	5000	7500
6	Live Hedge (temporary)	5000	0	0
7	Others	12435	2875	1500
	Sub-total- A	407935	73875	39000
B	Labour			
1	land Preparation	10000	0	0
2	Digging of Pits	8200	2000	0
3	Refilling of pits	5000	2000	0
4	Plant Protection	5000	7500	10000
5	Interculture	0	5000	5000
6	Manuring	20000	5000	6000
7	Training & Pruning	5000	5000	7500
8	Others	10000	2000	1800
	Sub Total- B	63200	28500	30300
C	Grand Total	471135	102375	69300
D	Unit Cost	642810		

Polyhouse/Shadenet

Sl. No.	Name of the Scheme	Slab (sq. mts)	Unit Cost/sq. mts in ₹	Total Cost (in ₹ Lakhs)
1	Construction of Flat Roof Net House with Cable purlin	2025	538	10.89
		3965	488	19.35
2	Ultra Low Cost Shade Net- 240 sq. mts	240	312.5	0.75
	Ultra Low Cost Shade Net-400 sq. mts	400	253.75	1.015

Special Instructions:

1. Polyhouse /Shade net house are to be constructed as per the extant guidelines issued by Department of Horticulture.
2. Small Net Houses of less than 2025 sq.mm are viable when it is taken on cluster basis by farmers collectives (FPOs) duly supported by promotional agency. The promotional agency should have knowledge in both production and marketing aspects as also should have on farm post- harvest infrastructure for grading of the produce and marketing.
3. Repayment period for all categories of farmers ranges from 4-7 years, depending on cash flow. Repayment may be fixed at half-yearly interval with a moratorium period of 9 months.
4. Expenditure of first crop cycle may be capitalized with the unit cost. Margin Money from the borrower would be 10-15% of project cost.
5. Borrowers should practice good agricultural practices for getting better yield and quality of the produce.
6. In case of Polyhouse/Net Houses, the financing entity may ascertain availability of subsidy from the Department of Horticulture.

G. SERI-CULTURE

Shoot Rearing system- Cocoon formation stage

Sl. No.	Item/Activity	Unit Size	Amount (₹)
1	Mulberry garden establishment	2 acre	120000
2	Rearing equipment's	300 DFLs per batch	75000
3	Rearing shed (50 ft, 20 ft, 15 ft)	1000 sq ft	700000
4	Rearing cost for first batch	300 DFLs	10000
5	Total Cost		905000

Note a)As per Unit Cost by Central Silk Board Bangalore, Ministry of Textiles, GOI Cost for Irrigation may be included up to ₹ 1,00,000 for project of 2 Acre.
 b)For shed cost it approximately ₹6 lakh to 7 Lakh
 c)The repayment period is 4 years with one year moratorium period

Chawki Rearing Centre:

Sr. No.	Details	Unit size	UNIT COST (₹)
1	Mulberry garden establishment	2 acre	120000
2	Rearing equipment	5000 DFLs per batch	617000
3	Rearing house & Incubation chamber	1000 sq ft & 200 sq ft	720000
4	Rearing cost for first batch	500 DFLs	180300
5	Total cost		1637300

*Rearing cost per batch is ₹ 60100 and we considered capitalisation of 3 batch which works out to ₹ 180,300/-

Financial viability and bankability for Chawkie rearing of 5000 DFLs / batch

1. IRR – 89%
2. BCR – 1.35 : 1
3. Repayment period – 4 years with 6 months moratorium
4. Margin money considered – 25% of TFO
5. State Government Subsidy not taken into account for working out its viability.

Reeling Centre:

SI NO	Activity	Cost (₹)
A	10 Basin multi end silk reeling centre (MERU)	
(i)	Machinery	17,09,000
(ii)	Shed	7,20,000
	Total	24,29,000
B	Automatic reeling unit (ARM) 400 Ends	
(i)	Machinery	14102000
(ii)	Shed	2880000
	Total	16982000
C	Automatic reeling unit (ARM) 200 Ends	
(i)	Machinery	79,83,000
(ii)	Shed	1500000
	Total	94,83,000

Twisting Unit

SI NO	Activity	Cost (₹)
	Twisting unit (480 spindles)	
	Total	11,00,000

Special Terms and Conditions (P & H and Sericulture)

Plantation and Horticulture	Sericulture
<p>The FI to consult the State Dept of Horticulture or the concerned commodity board while selecting the area to ensure technical feasibility of crop investment.</p> <p>Loans under the scheme shall be given to those beneficiaries who have assured source irrigation. Necessary TL may be provided to create such facilities.</p> <p>Under Dryland Horticulture Development, the banks may ensure that necessary soil and water conservation measures are undertaken.</p> <p>The bank to satisfy itself that planting, material of required quantity and quality, procured by the beneficiaries are from reliable sources such as Agri Universities, State Govt or any recognized seed manufacturers.</p> <p>Loans shall be issued in respect of investments for raising plants during the first year and for subsequent maintenance, till the plant attains economic bearing stage, or as indicated in the unit cost. However, where loans are proposed to be availed of only for the first year planting, it should be ensured that the beneficiaries have their own resources to meet subsequent expenditure.</p> <p>Beneficiaries may be advised to use tissue culture plantlets.</p> <p>Bank to ensure that, the pits dug will be standard size specified for crop</p>	<p>The beneficiaries may be identified in consultation with the State Dept of Sericulture/ Central Silk Board especially in non-traditional zones/ districts.</p> <p>While financing for seed cocoon production, ensure that the scheme area is a notified seed area.</p> <p>Ensure that the beneficiaries selected have adequate source of irrigation while financing for mulberry cultivation under irrigated conditions.</p> <p>Improved high yielding varieties of mulberry and silk work races like CB (cross bred BV selections), bivoltine, may be insisted upon under irrigated conditions.</p> <p>Supply of planting material of specified mulberry variety may be ensured through Govt Seed Farm or reputed private sources.</p> <p>The financing bank may ensure that there is adequate supply of quality disease free silk work eggs (DFLs).</p> <p>The equipment financed under the scheme for rearing of silk worm should comply with the specifications of state department of sericulture and match with the rearing programme contemplated by the beneficiary.</p> <p>The acreage norms specified (half</p>

Plantation and Horticulture	Sericulture
<p>selected; the pits dug will be filled with top soil and well decomposed farm yard manure and soil disinfectants if necessary; planting of approved high yielding varieties to suit the situation should be insisted upon; the young plants should be staked immediately after planting and shade/ cover/ hutting etc., provided wherever necessary and irrigated; suitable inter crops may be taken up during the gestation period of the main crop wherever feasible; the recommended fertilizer and plant protection schedule shall be followed strictly. The components like fertilizers, chemicals, weedicides etc., shall be disbursed only in kind or based on actual.</p> <p>Necessary technical guidance/ supervision may be provided by the technical staff of the financing bank. If this is not possible, the bank shall satisfy itself that necessary extension services as provided by concerned development department of the State Govt/ Commodity Board, etc.</p>	<p>acre in seed area and one acre in commercial area) should be strictly adhered to while financing for development of infrastructure like rearing house.</p> <p>The rearing house should be constructed as per the design and specifications of department of sericulture.</p> <p>The financing bank may ensure that the area specifications (300' x 15' for one area model) are adopted while constructing the rearing house and the same should be an exclusive rearing house and not a rearing cum dwelling house.</p> <p>The beneficiaries should be included under the ongoing tripartite system to ensure proper recovery of loan.</p>



H. HONEYBEE REARING

Honeybee Rearing

SI NO	Activity	Cost (₹)
	10 box model	
	Total	63500

**Repayment period: 6 years with one year grace period*



I. FISHERIES

Unit Cost of Fisheries Investments

(Amount in ₹)

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
1	Fish Seed Rearing unit 1 ha.	7,00,000		1,50,000	8,50,000
	Ground cleaning, dewatering, Levelling etc.,	25,000	Cost of Fish seed	60,000	
	Earthwork excavation, Construction of pond with bunds, consolidation -1 ha WSA	3,00,000	Fertilizers	4,500	
	Inlet, outlet and sluice structure	40,000	Micronutrients	500	
	Pump house - 100 sqft	50,000	Lime	2,000	
	Pumps - 2 nos -5 HP	1,00,000	Cost of feed	45,000	
	Aerators @35,000/ , 1Nos	35,000	Wages / Salaries		
	Nets and accessories	30,000	Technician	7,000	
			Skilled Labour	7,000	
	Water testing kit 20000	20,000	Unskilled Labour	6,000	
			Harvesting and packing expenses	6,000	
	Electrification L.S.	50,000	Medicine	2,000	
Watchman shed - 100 sqft	50,000	Power Charges	10,000		
2	Fishermen Societies members /Licence Holders (Reservoir Fishermen)	NIL	Cast Nets	5,000	
			Gill Nets	2,400	
			FRP Coracle	20,000	
			Life Jacket	1,200	
			Packaging material including ice	1,400	
			Total	30,000	

(Amount in ₹)

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
3	Marketing support to Fishers	NIL	Purchase of fish local @ 30 Kgs per day	21,000	
			Purchase of ice	3,150	
			Transportation and other incidental charges	850	
			Total	25,000	
4	Re-Circulatory Aquaculture System units -10 tons capacity	18,00,000		7,00,000	25,00,000
	Land required (acres)	18,00,000	Seed cost @ ₹4/pc for 24,000 (incl GIFT Tilapia etc)	96,000	
	Quarantine Tank		Feed	4,00,000	
	Nursery tank		Electricity charges	1,50,000	
	Growing tanks		Manpower	48,000	
	Water supply system and Water filtration system for all tanks as mentioned above		Miscellaneous	6,000	
	Effluent plant				
	Equipment for transfer from one tank to other, harvest, crates, etc.				
	Gen set				
5	Ice plant with capacity of (10) tonnes		19,00,000		
	Complete 10 TPD tube ice plant	19,00,000	Electricity	3,00,000	
			Wages for 3 persons @ ₹ 600/day	2,00,000	
			Maintenance	1,00,000	

(Amount in ₹)

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
6	Feed Mill Small (1-5 Quintals/day)	10,00,000		5,00,000	15,00,000
	Warehouse	1,46,657	Working capital for feed ingredient	4,00,000	
	Machinery Hall	1,07,000			
	Office/ laboratory	87,295	Electricity	10,000	
	Generator room	57,548			
	Flour Grinder	5,50,000	Packing charges per ton	15,000	
	Electrical Items	20,000			
	Water supply system	15,000	Wages and salaries	75,000	
Miscellaneous	16,500				
7	Pen culture one hectare	2,00,000		50,000	2,50,000
	Pen material with erection charges	2,00,000	Seed (60000 fry @₹ 100/1000 fry for fingerlings rearing)	6,000	
			Feed	25,000	
			Wages	13,000	
			Harvesting and packing expenses	6,000	
8	Cage culture	1,50,000		1,50,000	3,00,000
	One Unit (6x4x4 Sqr.M)	1,50,000	Seed (5000 x ₹3/-)	15,000	
			Feed	120000	
			Wages	15000	
9	Establishment of Fish seed Hatchery One Unit of 2 Ha	22,00,000		3,00,000	25,00,000
	Earth Work	4,35,616	Cost of Brood Fish	1,00,000	
	Brooder ponds				
	Nursery ponds				
Rearing ponds	4,68,545	Hormones and other spawning agent	25,000		

(Amount in ₹)

SI	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
	Civil Structures	2,58,839	Fertilizers	20,000	
	Spawning pools	9,96,000	Micronutrients	25,000	
	Incubation chambers		Lime	10,000	
	Spawn collection cistern		Cost of feed	75,000	
	Egg collection tank				
	Shed for store				
	Laboratory room		Wages/ Salaries	30,000	
	Overhead tank				
	Inlet and outlets and water supply		Harvesting and packing expenses	10,000	
	Machinery and Equipment				
	Water Pump		Miscellaneous (Power charges etc.,)	5,000	
	Sprinklers with pipe				
	Oxygen cylinders with all fittings				
	Nets				
	Breeding kit				
	(syringe needle, homogenizes, aerator etc)				
	Refrigerator, aerator, oxygenator etc.	41,000			
10	Medium scale ornamental Fish rearing and Aquarium units One unit	5,25,000		1,75,000	7,00,000
	Cement Tanks (50000 litres)	2,00,000	Purchase of brooder fish 1000 no's both male and female	25,000	
	Shed	1,50,000	Feed 500 kg/year @ ₹200 /kg for entire cycle	1,00,000	
	Live feed facility and feed maker	30,000	Electricity and fuel per month	10,000	
	Glass tanks	30,000	Wages to labours	30,000	
	Water supply system	25,000	Misc. expenditure	10,000	
	Electrification L.S.	30,000			
	Water treatment equipment	45,000			
	Aeration/lifesaving system	15,000			

(Amount in ₹)

SI	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
11	Semi Intensive fish culture 1 ha.	6,50,000		4,38,000	10,88,000
	Ground cleaning, deweeding, Levelling etc.,	25000	Pond Preparation, lime, zeolites, etc	30000	
	Earthwork excavation, Construction of bund	300000			
	Inlet, outlet and sluice structure	40000			
	Pump house - 100 sqft	50000	Fish (IMC/GIFT) Seed-7000 nos @₹3/each (size: 80-100 mm)	21000	
	Pumps - 1 nos -5 HP	50000	Feed (9.5 Tons @₹30/Kg)	285000	
	Aerators @35,000/ , 1 Nos	35000	Cow dung (10 Tons/ha @ 2000/Ton)	20000	
	Nets and accessories	30000	fertiliser (200 kg @₹10/kg)	2000	
	Water testing kit 20000	20000	Harvesting	20000	
	Electrification L.S.	50000	Electricity	40000	
	Watchman shed - 100 s.ft	50000	Miscellaneous	20000	
12	Biofloc Unit with 7 Tanks	6,00,000		1,68,000	
	Setup of Tarpaulin/Fibre tanks(15,000 Litres capacity)	175000	Feed cost(FCR 1: 1.5, ₹ 30/kg *4.2 Tons)	1,26,000	
	Shed material and accessories fixing charges- 200 m2	120000			
	Water supply borewell(3HP)	100000			
	PVC pipe fittings for air, water flow	75000	Seed cost (7000*2.5)	17,500	
	Nets and accessories	15000			
	One Blower (1 HP), Air stones and other accessories	30000			
	Electrification	10000			
	Power generator (2 KVA)	45000			

(Amount in ₹)

SI	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total	
	Weighing balance	10000	Probiotics, Test kits	24,500		
	Miscellaneous expenses	20000				
13	Circulatory Aquaculture System (CAS) - 1 tank+ 1 pond	2,90,795		1,51,000	4,41,795	
	Tank					
	PVC 1500 GSM tanks for Fish Cultivation @ 100 kg(weight of tank)	2,65,795	Fish Seed (1000*15)	15000		
	Welding and UPVC pipes for fitting- including transport		Feed (45*2.7MT)	1,26,000	5,000	
	Blowers (quantity =1) including of transport					
	Aeration tubes for Oxygenation purpose					
	PVC pipes and Fitting for blowers and tanks inlets and outlets		Maintenance			
	Civil work and Shed (15*18 sq. Feet)		Transport	5,000		
	Pond					
	Cost for earthen pond 25' x 25' x 6'	15,000				
	Fencing for biosecurity	10,000				
14	Shrimp farming per ha (SPFL vannamei)	11,90,000		22,80,000	34,70,000	
	Pond Construction	700000	Pond preparation including liming	40000		
	Civil work- In let / Outlet Sluices	80000	Salt, minerals and probiotics (35 T of salt to maintain 3 ppt salinity)	350000		
	Water Pumps 7.5 HP (1 No)	40000	Repairing and renovation of electrical and	20000		

(Amount in ₹)

Sl	Activity	Capital Cost	Recurring Activity	Recurring Cost	Total
	Generator (1 No)	50000	water supply Land lease value for 4 months	80000	
	Aerators 2 HP (6 Nos)	180000	Seed (6,00,000 no stocking per ha @ ₹ 0.35 per seed) including transportation	210000	
			Feed (1.3 FCR and ₹ 95/kg)	1235000	
	Pump house/Farm shed (1 No)	100000	Fuel & Electricity (₹ 8 per unit for 20000+ units)	160000	
	Pump house/Farm shed (1 No)	100000	Watch & ward	80000	
			Lab/Technician charges	50000	
	Pipes, wiring etc	40000	Harvest charges	30000	
			Miscellaneous	25000	

The bank shall ensure that: -

1. Only quality fish seed should be procured and stocked in the pond.
2. Varieties of fish, stocking density, manuring and artificial feeding, as prescribed the Department of Fisheries, must be adhered to.
3. The pond should be kept free from predators and aquatic weeds.
4. Inlets and outlets should be covered by screens to prevent entry of unwanted fishes and escape of fish from the pond.
5. Periodical sample netting should be conducted to assess the growth and health of fishes.
6. Borrowers may be selected in clusters so that the scheme can be effectively monitored.
7. Permission / clearance from the concerned authority for construction of ponds, water lifting etc. must be obtained.

Farmers culturing L. Vannamei (Shrimp) -

1. It is advisable not to culture in freshwater with zero ppt salinity, it could lead to poor growth and poor quality. Salinity of water should be maintained at least at 0.5 ppt.
2. Post Larvae 15 days and above should only be stocked.

J. FORESTRY

Sl No	Type of Plantation	Spacing	Population (No. of plants)	Cost (₹)	Repayment period (years)	Gestation (years)
1	Sandalwood (with Casuarina) (per Acre)	3.5 m x 1.75 m	650/acre	26615	4	3
					12	11
2	Melia dubia	3 m x 3 m	1111/ha	120000	7	6
3	Bamboo	5 m x 5 m	400/ha	110000	8	5
4	Teak	2 m x 2 m	2500/ha	130000	13	7
5	Jamun	8 m x 8 m	156/ha	105000	7	4
6	Eucalyptus	3 m x 2 m	1667/ha	116000	7	6
7	Casuarina	1.5 m x 1.5 m	4444/ha	90000	4	3
8	Subabul	2 m x 2 m	2500/ha	80000	4	3
9	Tamarind	8 m x 8 m	62/acre	54390	9	4



K. MEDICINAL AND AROMATIC PLANTS

The major crops cultivated and the unit cost is as under:

(Amount in ₹)

Sl No	Activity	Local Name	Cost
1	Acorus calamus Linn.	Vasa	109393.89
2	Aloe vera (Linn.)	Kalabanda	74387.85
3	Andrographis paniculata (Linn)	Nelavemu	43757.55
4	Asparagus racemosus Willd	Pillitheegalu	109393.89
5	Azadirachta indica A.Juss	Vepa	65636.34
6	Cassia angustifolia Vahl.	Nela Thangedu	43757.55
7	Catharanthus roseus	Billaganneru	43757.55
8	Coleus barbatus Benth. Syn.	Pashanabedhi	75262.99
9	Embllica officinalis Gaertn.	Usiri	113769.65
10	Gymnema sylvestre R.Br.	Podapathri	43757.55
11	Hemidesmus indicus R.Br.	Sugandhapala	61260.57
12	Mucuna prurita Linn.	Dhulagondi	35006.04
13	Ocimum sanctum Linn.	Tulasi	52509.06
14	Phyllanthus amarus Schum & Thonn.	Nela Usiri	48133.31
15	Piper longum Linn.	Pippallu	109393.89
16	Stevia rebaudiana	Stevia	165770
17	Tinospora cordifolia Miers	Thippatheega	48133.31
18	Withania somnifera (Linn.) Dunal	Pinneru gaddalu	43757.55
19	Aegle marmelos (Linn) Corr.	Maredu	70012.09
20	Gloriosa Superba Linn.	Adavinabhi	240666.56
21	Gmelina arborea Linn.127	Gummadi Teak	78763.6
22	Rauwolfia serpentine Benth. Ex Kurz	Pathalagaridi	109393.89
23	Saraca asoca (Roxb.) De Wilde	Ashoca	109393.89
24	Pterocarpus santalinus	Yerra Chandanam	98892.07
25	Santalum album Linn.	Srighandam	85236.82

L. ANIMAL HUSBANDRY

A. Unit Costs of Dairy Sector Investments

SL No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)		Repayment Period	Terms & Conditions
1	Dairy					
a.	Two animal unit					Banks may ensure that -
			Cost of 2 CBCs (Rs. 87500/animal)	175000		Good quality animals (Jersey Crossbreds in Plains & HF Crossbreds in Hilly/cool areas or Graded Murrah Buffaloes), preferably freshly calved animals in 2 or 3 lactations, yielding on an average 10-11 litres of milk (Cows)/8-9 litres (Buffaloes), per day are financed.
			Transport cost (₹.2750/animal)	5500	5 Years (monthly / quarterly instalments)	
			Equipment	4500		
	I. Cross Bred Cows	1+1	Feed Cost for 1 month (1 animal)	4000		There is an interval of 6 months between purchase of two animals / batches, so as to ensure continuity in milk production.
			Insurance (@4.5%)	7880		
			Veterinary Aid (₹3250/-)	6500		
			Total	203380		
			Cost of 2 GMBs (₹ 97500/animal)	195000		Linkages in respect of training, breeding & vet care, feed, fodder, medicines and marketing are adequate.
			Transport cost (₹3250/animal)	6500	5-6 Years (monthly / quarterly instalments)	Local veterinarians advise is availed of with regard to age, health and quality of the animals to be purchased.
			Equipment	4500		Animals are identified immediately after purchase through ear tagging and are insured, preferably under a long term master policy.
			Feed Cost for 1 month (1 animal)	4000		
			Insurance (@4.5%)	8780		
			Veterinary Aid (₹3250/-)	6500		
			Total	225280		
b.	Mini Dairy	5	Shed (5 animals, 40 sq.ft./animal)	37000	5-6 Years	

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
	(CB cows)	animals (3+2)	Rs.185/sq.ft: AC Sheet Roofing) Shed (3 calves, 30 sq.ft./animal Rs.185/sq.ft: AC Sheet Roofing) 16200 Transportation cost (₹3000/animal) 15000 Cost of equipment (₹2500/animal) 12500 Cost of animals (₹ 90000/animal) 450000 Feed for 1 month for I batch 18000 Fodder cultivation (0.5 acre) 12000 Insurance (@4.5%) 20250 Veterinary aid (₹3500/animal) for I batch 10500 Total 591450	(monthly / quarterly instalments)	Banks can finance hand operated Milking Machines for Mini dairy units.
			Shed (5 animals, 40 sq.ft./animal Rs. 185/sq.ft; AC Sheet roofing) 37000 Shed (3 calves; 30 sq ft./animal Rs. 185/sq.ft; AC Sheet roofing) 16650 Transport cost (₹3250/animal) 16250 Cost of equipment (₹2250/animal) 11250 Cost of animals – CB cows (₹97500/animal) 487500 Feed for 1 month for I batch (3500/- x 3) 12000 Fodder cultivation (0.5 acre) 12000 Insurance (@4.5%) 21938 Veterinary Aid (₹ 3250/animal) 9750	6-6 Years (monthly / quarterly instalments)	Farmer cultivate green fodder (especially mini/commercial dairies, atleast 3-4 months ahead of purchase of animals) so as to reduce the expenditure. Green fodder cultivation in minimum 0.5 – 1.0 acre has to be ensured for mini dairy farms. Farmers follow the schedules regarding deworming and vaccination against prevalent diseases (HS, BQ, FMD etc.,) with the help of local vet. Suitable arrangements exist for sale of milk either, through organised sector (BMCUs or
c.	Mini Dairy (GMB)	5 animals (3+2)			

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)		Repayment Period	Terms & Conditions
			for 1 batch	Total for GMB unit		
d.	Mini Dairy (CB cows)	10 animals (5+5)	Shed (10 animals, 40 sq.ft./animal Rs.185/sq.ft: AC sheet roofing)	74000	5-6 Years (monthly / quarterly instalments)	Pvt dairies) or direct sales, at remunerative prices. If sale of milk is through organised route, arrangements could be explored for recoveries through proper tie-up.
			Shed (5 calves, 30 sq.ft./animal Rs.185/sq.ft: AC sheet roofing)	27750		
			Transportation cost (Rs.2750/animal)	27500		
			Cost of equipment (₹2250/animal)	22500		
			Cost of animals (₹87500/animal)	875000		
			Feed for 1 month for 1 batch (4000/- x 5)	20000		
			Fodder cultivation (0.5 acre)	12000		
			Insurance (@4.5%)	39375		
			Veterinary aid (₹3500/animal) for 1 batch	16250		
			Total	1114375		
e.	Mini Dairy (GMB)	10 animals (5+5)	Note: Additional cost for water source, chaff cutter, milking machine etc., can be considered subject to viability		6-6 Years (monthly / quarterly instalments)	
			Shed (10 animals, 40 sq.ft./animal Rs185/sq.ft: AC sheet roofing)	74000		
			Shed (5 calves, 30 sq.ft./animal Rs.185/sq.ft: AC sheet roofing)	27750		
			Transportation cost (₹3250/animal)	32500		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions														
			<table border="1"> <tr> <td>Cost of equipment (₹2250/animal)</td> <td>22500</td> </tr> <tr> <td>Cost of animals - GMB (₹ 97500/- animal)</td> <td>975000</td> </tr> <tr> <td>Feed for 1 month for I batch</td> <td>20000</td> </tr> <tr> <td>Fodder cultivation (1 acre)</td> <td>12000</td> </tr> <tr> <td>Insurance (@4.5%)</td> <td>43875</td> </tr> <tr> <td>Veterinary aid (₹3250/animal) for I batch</td> <td>16250</td> </tr> <tr> <td>Total for GMB unit</td> <td>1223875</td> </tr> </table> <p>Note: Additional cost for water source, chaff cutter, milking machine etc., can be considered subject to viability</p>	Cost of equipment (₹2250/animal)	22500	Cost of animals - GMB (₹ 97500/- animal)	975000	Feed for 1 month for I batch	20000	Fodder cultivation (1 acre)	12000	Insurance (@4.5%)	43875	Veterinary aid (₹3250/animal) for I batch	16250	Total for GMB unit	1223875		
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Total for GMB unit	1223875																		
f.	Commercial Dairy	Any Size	<p>Depending upon the size of the unit. Indicative costs for various items of investments are -</p> <p>a) Cost of CBC - ₹6000-7500/Litre Per day (LPD); GMB - Rs.9000-11000/LPD; Cost of equipment - ₹ 11000/animal</p> <p>b) Higher transport can be considered on need basis.</p> <p>c) Shed space - 20 sq.ft./calf; 30 sq.ft./heifer; 40 sq.ft./ adult; Shed cost - ₹ 120/sq.ft.-Thatched Roof; ₹155/- sq.ft.-Asbestos roof</p> <p>d) Fodder cultivation - 1 ac/10 animals; ₹ 24000/acre</p> <p>e) Feed cost to be capitalised for the first batch of animals @ ₹4000/animal/Insurance cost - actual (4.5% of animal cost assumed); Veterinary aid - ₹ 1500/animal</p> <p>Other investments like feed store, milk shed, chaff cutter, minor irrigation structures for fodder unit, water supply system, milking machines, fencing, cost of bulls / AI unit, feed mixing unit etc., may be considered based on need and subject to viability.</p>																

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions																		
g.	Female Calf Rearing	1 no.	<table border="1"> <tr> <td>Cost of Calf*</td> <td>Own</td> <td>42000</td> </tr> <tr> <td>Cost of feed for 23 months (1620 kg) for CB calves</td> <td></td> <td>48000</td> </tr> <tr> <td>Cost of feed for 40 months (1900 kg) for Buffalo calves</td> <td></td> <td>1500</td> </tr> <tr> <td>Veterinary Aid</td> <td></td> <td>2500</td> </tr> <tr> <td>Insurance</td> <td></td> <td>46000</td> </tr> <tr> <td>Total for CB calf</td> <td></td> <td>52000</td> </tr> </table> <p>* For large units the cost of calf can also be included.</p>	Cost of Calf*	Own	42000	Cost of feed for 23 months (1620 kg) for CB calves		48000	Cost of feed for 40 months (1900 kg) for Buffalo calves		1500	Veterinary Aid		2500	Insurance		46000	Total for CB calf		52000	5 years including 2 years grace	<p>Banks may ensure that -</p> <ol style="list-style-type: none"> 1. Cross bred calves of Jersey & HF and Murrah /Graded Murrah Buffalo calves are supported. 2. Calves of 3-4 months age are assisted as they are at the right age for exploiting their true genetic potential. Around 1620 kg of feed is required for the calf from the age of 3-4 months till it calves for the first time (28-30 months) for CB calves and 1900 kgs feed is required till calving (from 5 to 45 months) for buffalo calves. 3. Linkages in respect of training, breeding & vety care, feed, fodder, medicines and marketing are adequate 4. Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases (HS, BQ, FMD etc) with the help of local vet. 5. The activity can be integrated with milch animal financing.
Cost of Calf*	Own	42000																					
Cost of feed for 23 months (1620 kg) for CB calves		48000																					
Cost of feed for 40 months (1900 kg) for Buffalo calves		1500																					
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h.	Fodder Cultivation	1 acre	<table border="1"> <tr> <td>Cost of land preparation -Ploughing</td> <td>2500</td> </tr> <tr> <td>Forming ridges</td> <td>1000</td> </tr> <tr> <td>Planting Material and Seeds</td> <td>3300</td> </tr> <tr> <td>Farmyard Manure 5 tons</td> <td>2500</td> </tr> <tr> <td>Fertilizer</td> <td>2800</td> </tr> </table>	Cost of land preparation -Ploughing	2500	Forming ridges	1000	Planting Material and Seeds	3300	Farmyard Manure 5 tons	2500	Fertilizer	2800	5 years	<p>Improved varieties of Hybrid Napier (CO-3, 4, 5: APBN-1 and 2), maize, etc. may be encouraged.</p>								
Cost of land preparation -Ploughing	2500																						
Forming ridges	1000																						
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Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions														
			<table border="1"> <tr> <td>Cost of application of FYM and Fertilizer</td> <td>1000</td> </tr> <tr> <td>Cost of Planting (12 man days/acre; ₹100/day)</td> <td>1500</td> </tr> <tr> <td>Cost of weeding</td> <td>3000</td> </tr> <tr> <td>Cost of irrigation</td> <td>1800</td> </tr> <tr> <td>Cost of cutting</td> <td>2800</td> </tr> <tr> <td>Miscellaneous</td> <td>1200</td> </tr> <tr> <td>Total Financial Outlay</td> <td>23400</td> </tr> </table>	Cost of application of FYM and Fertilizer	1000	Cost of Planting (12 man days/acre; ₹100/day)	1500	Cost of weeding	3000	Cost of irrigation	1800	Cost of cutting	2800	Miscellaneous	1200	Total Financial Outlay	23400		
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Total Financial Outlay	23400																		
2	Sheep Rearing																		
a	i. Breeding unit - Nellore breed	20+1	<table border="1"> <tr> <td>Cost of Ram</td> <td>12000</td> </tr> <tr> <td>Cost of Ewes (₹7400/animal)</td> <td>148000</td> </tr> <tr> <td>Cost of feeding for one cycle</td> <td>12000</td> </tr> <tr> <td>Cost of Insurance (7.5% of 3 years)</td> <td>12000</td> </tr> <tr> <td>Cost of Veterinary Aid</td> <td>2500</td> </tr> <tr> <td>Total</td> <td>186500</td> </tr> </table> <p>*Cost of thatched shed may be considered on need basis</p>	Cost of Ram	12000	Cost of Ewes (₹7400/animal)	148000	Cost of feeding for one cycle	12000	Cost of Insurance (7.5% of 3 years)	12000	Cost of Veterinary Aid	2500	Total	186500	6 years including 1 year grace period	<p>Banks may ensure that –</p> <p>Good quality animals (Nellore breed, Deccani etc. depending upon the area), aged around 10 to 14 months may be financed.</p> <p>Linkages in respect of training, breeding & vet care, feed, grazing area, medicines and marketing are adequate.</p> <p>Local veterinarian's advice is availed of with regard to age, health and quality of the animals to be purchased.</p> <p>Animals are identified immediately after purchase through ear tagging and are insured, preferably under a long term master policy.</p>		
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Cost of Veterinary Aid	2500																		
Total	186500																		
	ii. Breeding unit - Nellore breed	10+1	<table border="1"> <tr> <td>Cost of Ram</td> <td>12000</td> </tr> <tr> <td>Cost of ewes (₹7400/animal)</td> <td>74000</td> </tr> <tr> <td>Cost of feeding for one cycle</td> <td>6000</td> </tr> <tr> <td>Cost of Insurance (7.5% for 3 years)</td> <td>6450</td> </tr> <tr> <td>Cost of Veterinary Aid</td> <td>1250</td> </tr> <tr> <td>Total</td> <td>99700</td> </tr> </table> <p>*Cost of thatched shed may be considered on need basis</p>	Cost of Ram	12000	Cost of ewes (₹7400/animal)	74000	Cost of feeding for one cycle	6000	Cost of Insurance (7.5% for 3 years)	6450	Cost of Veterinary Aid	1250	Total	99700				
Cost of Ram	12000																		
Cost of ewes (₹7400/animal)	74000																		
Cost of feeding for one cycle	6000																		
Cost of Insurance (7.5% for 3 years)	6450																		
Cost of Veterinary Aid	1250																		
Total	99700																		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions	
b	i. Breeding unit - Deccani breed	20+1	basis		6 years including 1 year grace period	Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases (Sheep Pox, ET etc.,) with the help of local vet. The bank can provide Aadhar number to Animal Husbandry department to ascertain coverage under state government scheme before financing to Yadava golla, Kurma communities.
			Cost of Ram	10000		
			Cost of ewes (₹ 7000/animal)	140000		
			Cost of feeding for one cycle	6000		
	Cost of Insurance (7.5% for 3 years)	11250				
	Cost of Veterinary Aid	2500				
	Total	169750				
			*Cost of thatched shed may be considered on need basis			
	ii. Ram Lamb Fattening	20/ batch	Cost of Lambs (20Nos)	76000		
			Cost of Feeding	10000		
			Cost of Veterinary Aid	3000		
			Total	89000		
3	Goat Rearing				Banks may ensure that –	
a	Rearing Unit - Osmanbadi breed/ Improved desi	20+1	Cost of Buck	12000	6 years including 1 year grace period	a) Good quality animals (Osmanbadi)/ improved desi, aged around 10 to 14 months may be financed b) Linkages in respect of training, breeding & vety care, feed, grazing area, medicines and marketing are adequate c) Local veterinarians advise is availed of with regard to age, health and quality of the animals to be purchased
			Cost of Does (₹ 7000 each)	140000		
			Cost of feeding for one cycle	9200		
			Cost of Insurance (7.5% for 3 years)	11400		
			Cost of Veterinary Aid	3200		
			Equipment	2800		
	Total	178600				

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions	
b	Rearing Unit - Osmanbadi breed/ Improved desi	10+1	Cost of Buck	12000	6 years including 1 year grace period	<p>d) Animals are identified immediately after purchase through ear tagging and are insured, preferably under a long term master policy</p> <p>e) Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases (Goat Pox etc.,) with the help of local vet.</p> <p>f) In case of stall fed goat rearing units (50+2 size), the shed space requirement will be about 1000 sq ft (10 sq ft / doe, 20 sq.ft for buck and 4 sq.ft./kid) with fodder cultivation in 1.25 acre (irrigated)/ 2 acres (seasonal).</p>
			Cost of Does (₹ 7000 each)	70000		
			Cost of feeding for one cycle	5000		
			Cost of Insurance (7.5% for 3 years)	6150		
			Cost of Veterinary Aid	2000		
			Equipment	1500		
Total	96650					
4	Piggery					
a	Breeding unit	3+1	Cost of Boar	7000	5 years including 1 year grace period	<p>Banks may ensure that-</p> <p>a) Units are to be encouraged in locations with sources of vegetable /hotel /other waste to economise feed expenses</p> <p>b) Good quality foundation stock aged around 8 months in case of breeding units and 2 months in case of fattening units may be financed.</p> <p>c) The prices as per quotation may be considered for pigs purchased from State Government farms.</p> <p>d) Linkages in respect of training, breeding, veterinary care, feed, garbage collection and marketing are adequate.</p>
			Cost of Sows (₹ 4500 each)	13500		
			Cost of shed (70sq.ft/boar; 20sq.ft/ sow and farrowing pen 100 sq.ft)	24500		
			Cost of Fattener shed (10 sq.ft./fattener)	12000		
			Cost of feeding adults and growers	47500		
			Cost of Insurance (6%)	1218		
			Cost of Veterinary Aid	9000		
			Tricycle for kitchen waste collection, water supply and Equipment	32500		
			Total	147218		
			Say	147220		
b	Breeding unit	10+1	Cost of Boar	7000		
			Cost of Sows (₹ 4500 each)	45000		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
			Cost of shed (70sq.ft/boar; 20sq.ft/ sow and three farrowing pen @ 100 sq.ft./ pen)	60000	<p>e) Animals are identified immediately after purchase through ear tagging and are properly insured</p> <p>f) Borrower follows the schedules regarding deworming and vaccination with the help of local veterinarian and experts of Animal Husbandry Department.</p> <p>g) As per PR and Municipal Act, free roaming of pigs is prohibited and the same has to be ensured.</p>
			Cost of Fattener shed (10 sq.ft./fattener)	46200	
			Tricycle for kitchen waste collection, water supply and Equipment	190000	
			Cost of feeding adults and growers	3120	
			Cost of Insurance (6%)	9000	
			Cost of Veterinary Aid	67000	
			Labour Wages	80000	
			Total	507320	
			Cost of piglets	28000	
			Cost of shed (12.5 sq.ft./piglet)	12500	
			Cost of feed	6000	
			Miscellaneous	1320	
			Total	47820	
5	Poultry				
a	Contract Broiler farming	Any Size depend upon the contract	Only cost of shed and equipment need to be considered. Indicative cost would be : Thatched roof shed ₹ 110 /sq.ft./shed with asbestos roof and local material – ₹ 190-210/sq. and Equipment (Rs.₹/broiler)	6-8 years	<p>Banks may ensure that –</p> <p>a) there is a proper tie-up arrangement with the integrators like VHPL, Suguna, etc.,</p> <p>b) at least 5 batches of birds /year are supplied by the integrators.</p> <p>c) proper training is given to the farmers before taking up the activity.</p> <p>d) activity is taken up in a compact area.</p>
b	Independent broiler units	Large units	Indicative costs - Cost of Shed Construction - Asbestos – ₹ 190-210/sq.ft., thatched roof ₹ 90/sq.ft., Equipment - ₹ 22/broiler;	05 Years	<p>Banks may ensure that –</p> <p>a) Extreme care is taken in financing independent broiler units as more broiler production is coming under contract</p>

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (₹)	Repayment Period	Terms & Conditions
			Cost of DOC - ₹ 35-42 Cost of Feed - ₹ 38-40/kg Cost of Misc. Expenses - ₹ 15/bird (₹.400-450/bird) Feed Consumption - 3 to 4 kg based on age of marketing		farming b) Linkages in respect of training, chicks, feed, medicines etc., are adequate c) Cost of chicken can be considered based on the quotation of hatchery. The farm has a captive clientele / adequate market considering the fact that integrators are dominating the finished broiler market. Banks may ensure that - a) Linkages in respect of training, chicks, feed, medicines and marketing are adequate. b) Cost of chicken can be considered based on the quotation of hatchery. c) Beneficiary follows the schedules regarding deworming and vaccination against prevalent diseases. d) Automation could be considered depending on the proposal subject to technical feasibility and financial viability. e) For all large-scale units, the techno economic appraisal has to be undertaken on each individual project basis
c	Layer	Any Size preferably over 50000 birds	Depends upon the size - Cost of Shed Construction - Raised Platform with asbestos sheet - Rs. 270-300/sq.ft; Cost of Equipment - (dep. upon quotation) - i. Cage system - ₹ 70/brooder & grower; ₹ 90/layer (brooder)/ ₹ 26-28(grower mash)/₹ 25-27 (layer mash) per kg; Cost of Misc expenses - ₹ 18 upto point of lay; ₹18 during lay. Feed Consumption (₹630-680/bird) 1 - 8 Week 2kgs 9- 20 Weeks 6kg After 21 Weeks 700 gms/ week	8 years with one year grace period	
d	Back Yard Birds Unit	50 Birds	Cost of Shed Construction - Asbestos - ₹ 220/sq.ft @ 2 sqft per bird; Equipment - ₹ 22/bird; Cost of DOC - ₹ 28		Regular supply of DOC need to be ensured by proper tie up arrangement.

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (Rs.)	Repayment Period	Terms & Conditions
			Cost of Feed - ₹ 30/kg @ 7 kgs for 20 weeks Cost of medicines, vaccines Misc. Expenses - ₹ 25/bird. Unit Cost for 50 back yard bird unit is ₹ 36,350/-		
6	Plough Bullocks and Bullock Carts				Demand is mainly in sugarcane areas for transport of cane to mills
a	Plough Bullocks	1 pair	A. Non Descript (medium size) : ₹ 55,000 (incl insurance) B. Hallikar Bullocks : ₹ 85,000 (incl insurance)	5 years	
b.	Bullock Carts	1 no.	A. Pneumatic Tyre carts (3 T) : ₹ 58000/- B. Carts of local make / wooden: ₹ 48000/-	5 years	
7	Swachh Meat Hub				
	A portable hygienic slaughter unit with composting of solid and liquid waste for small ruminants	A.	Swachh Meat Hub portable slaughter unit	750000	1. The Swachh Meat Hub – A portable hygienic slaughter unit with composting of solid and liquid waste for small ruminants is developed by ICAR- National Meat Research Institute with support of NABARD under Farm Sector Promotion Fund. 2. The 10'(L) x 6'(W) x 10'(H) unit has a capacity of handling 20 sheep/ goat per day and is expected to operate 25 days in a month and 300 days in a year. 3. Recurring expenditure for the unit comprises of cost of animals (live weight based), consultancy charges of veterinary doctor, salary of plant operator, 2 Butchers, electricity charges, packing material, consumables, repair & Maintenance and Miscellaneous expenditure.
		B.	Equipment cost		
		1.	Knife sterilizer	5000	
		2.	Knife sharpener	5000	
		3.	Weighing balance	5000	
		4.	Sealer	3000	
		5.	Fly Catcher (2)	10000	
		6.	Fabrication table	30000	
		7.	Set of knife	2000	
		8.	Dress & Gumboot	5000	
	9.	Computerized billing machine	35000		
	10.	Display and price board	20000	3 years including 6 months grace period	
	Sub-Total B		120000		
	C.	Biofertilizer processing unit (waste management unit)	100000		
	Total (A+B+C)		970000		

Sl. No.	Item of Investment	Unit Size	Indicative Unit Cost (Rs.)	Repayment Period	Terms & Conditions
					<p>4. Considering the perishability of the end products and high rate of income generation from the unit, the working capital cycle for the unit may be considered as one day or one week.</p> <p>5. Bankers may consider extending a separate CC limit for financing the recurring cost.</p> <p>6. Ante-mortem and post-mortem examination of the animals may be carried out by qualified veterinary doctor as per the existing regulations of Municipal Corporations/ state/ country. Part-time consultancy/services of registered veterinarian may be taken for ante and post-mortem certification and records may be maintained with the unit.</p>

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Disclaimer

The unit costs approved by State Level Unit Cost Committee for the State of Telangana are only indicative in nature. All Banks, other Financial Institutions and Government Agencies are requested to consider appropriate modifications in costs, based on local situations, technical feasibility and financial viability of the investment concerned.

Touching Rural Lives in more ways than one....

Title	: Unit Cost 2024-25, NABARD, Telangana
Written and Published by	: Department of Refinance, NABARD, Telangana Regional Office, Hyderabad.
Month of Publishing	: July 2024
Design and Printing	: Inter Publicity Pvt. Ltd., Hyderabad.
Place of Printing	: Hyderabad, Telangana
No. of Copies	: 200 Nos
Publication Code	: E.RO.TS/25/22
Contact	: R.T.C 'X' Road, Musheerabad, Hyderabad – 500 020, Telangana, India, Tel: +9140-27685 129 Email: hyderabad@nabard.org , Website: www.nabard.org

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